

# Advanced Bash-Scripting Guide

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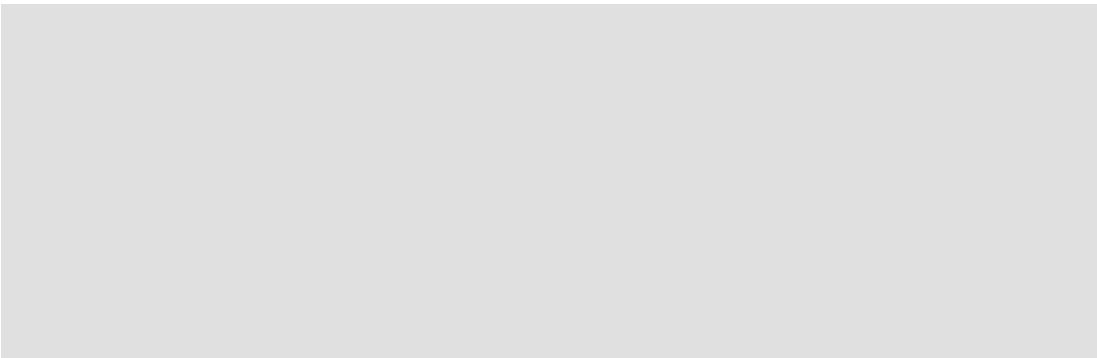
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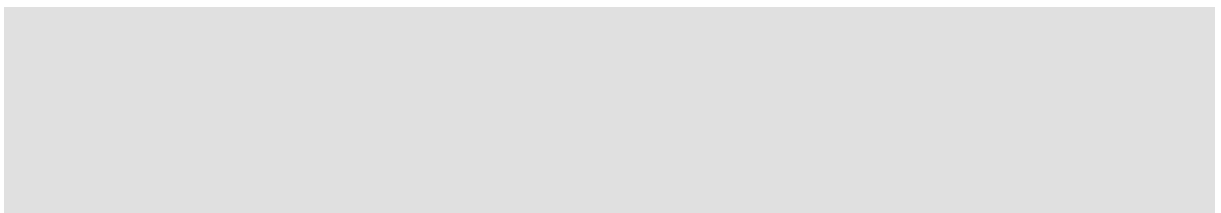
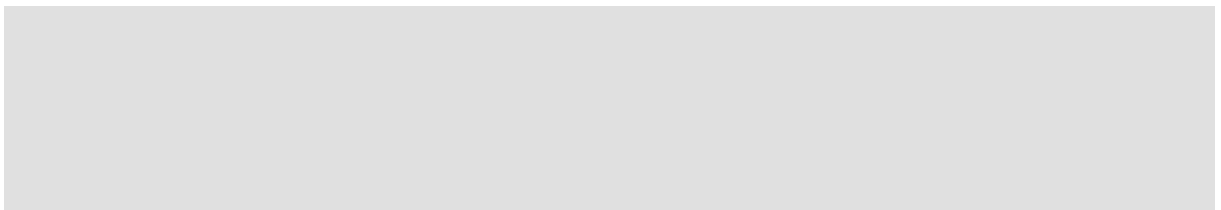
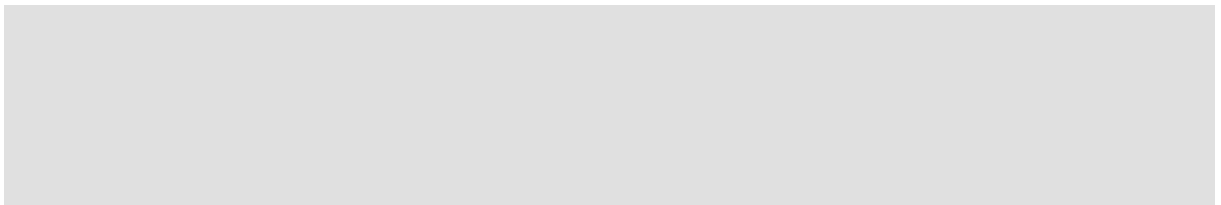
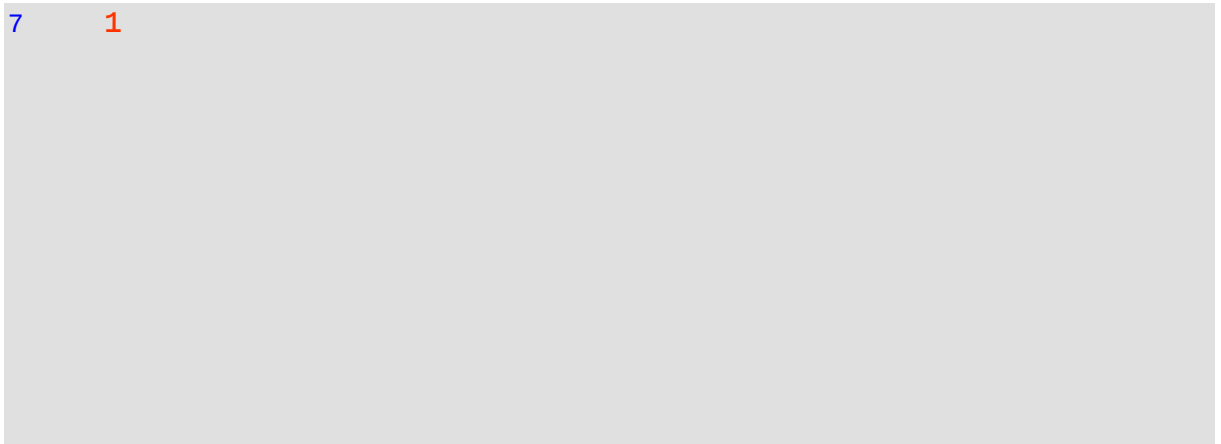




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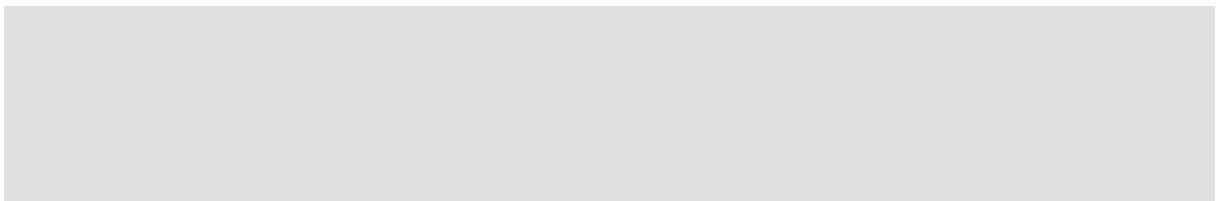
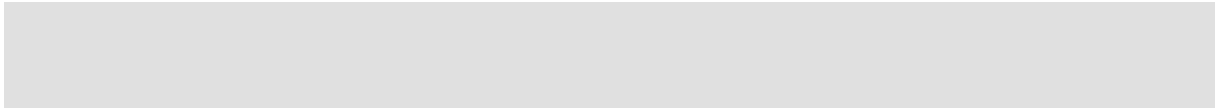


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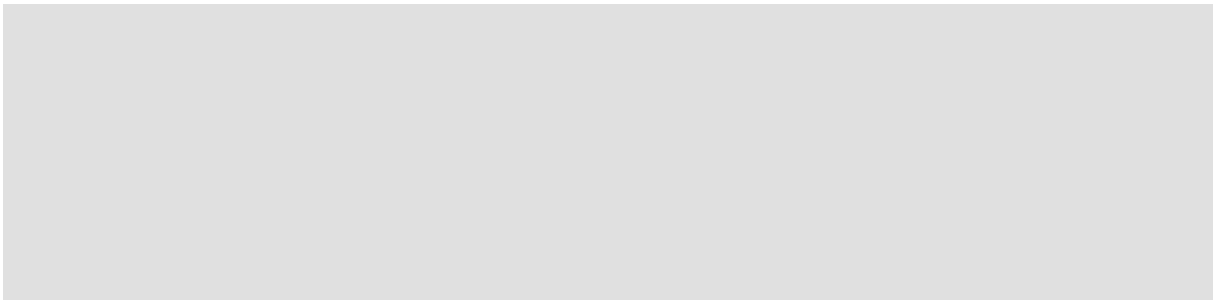
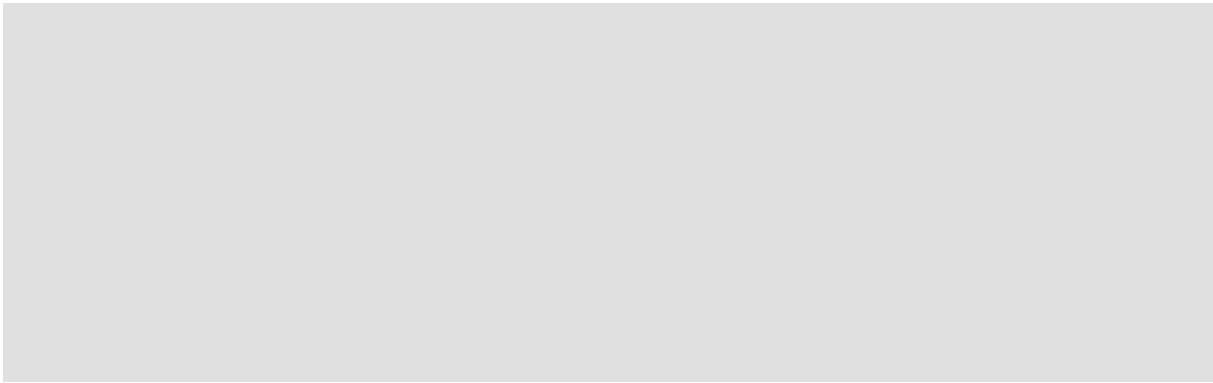
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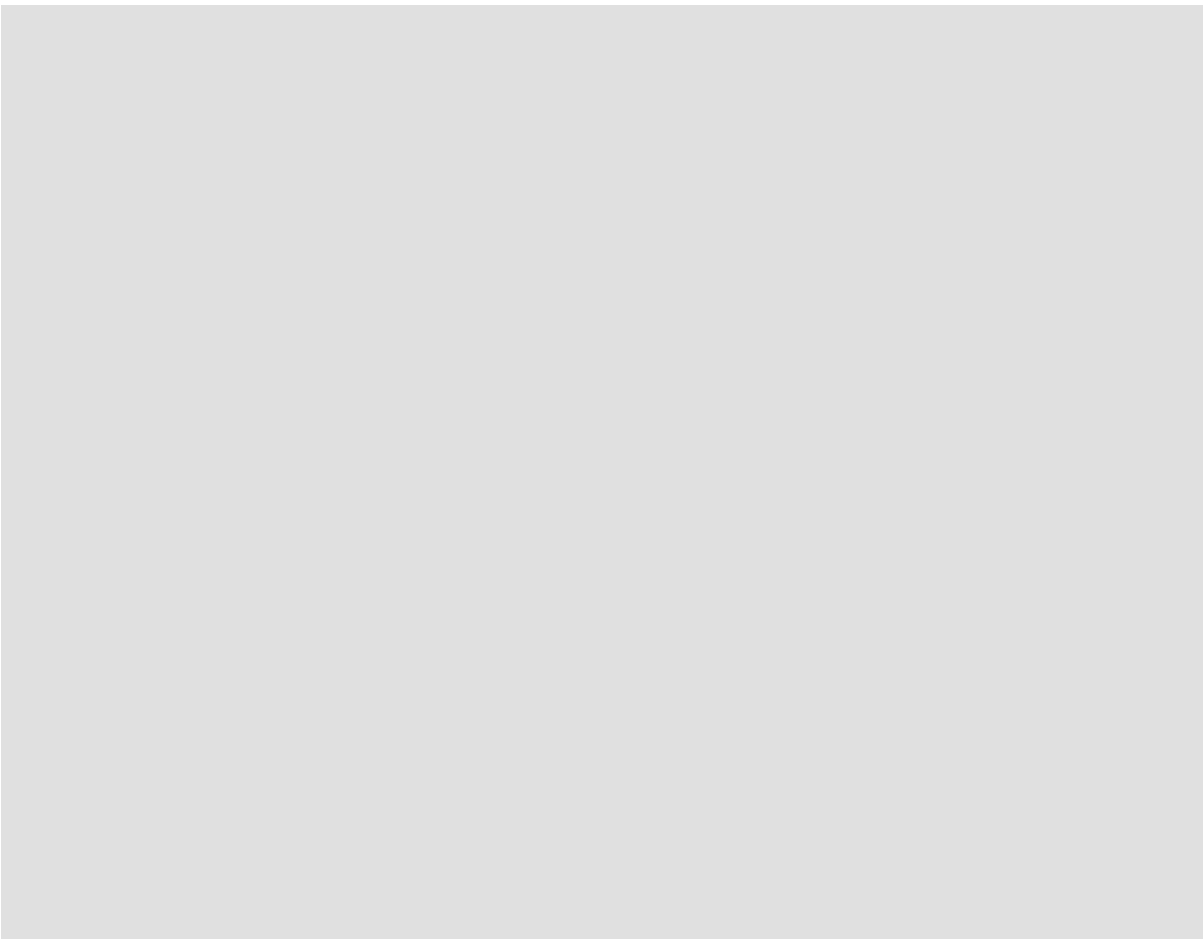
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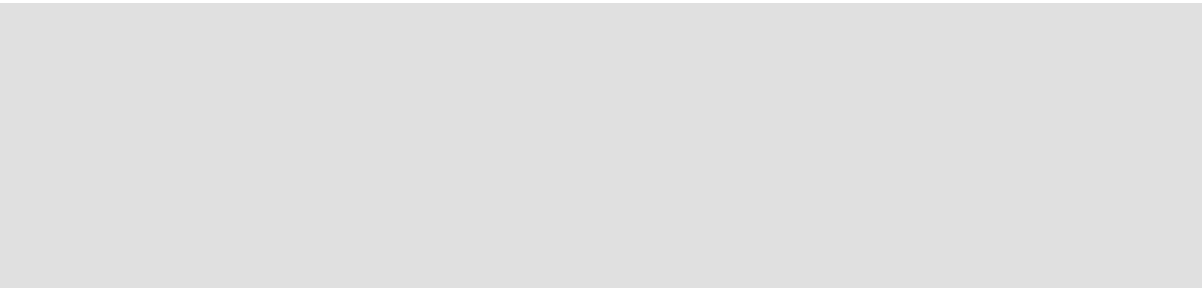
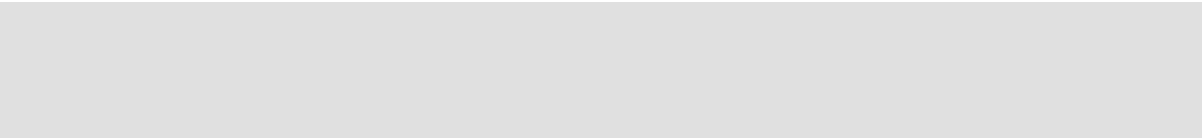
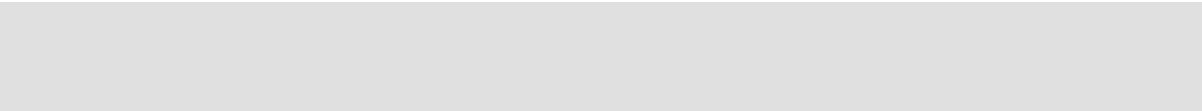
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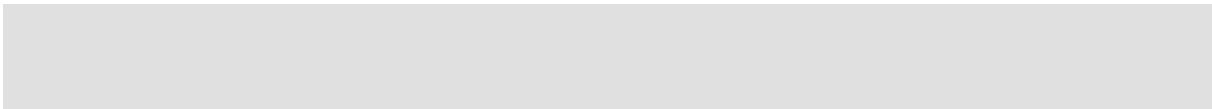
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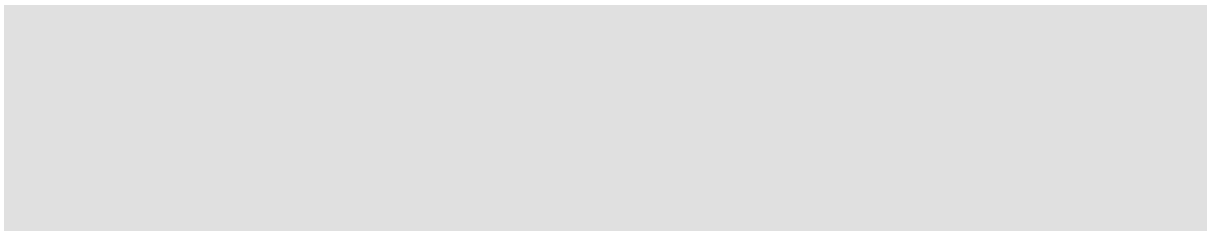


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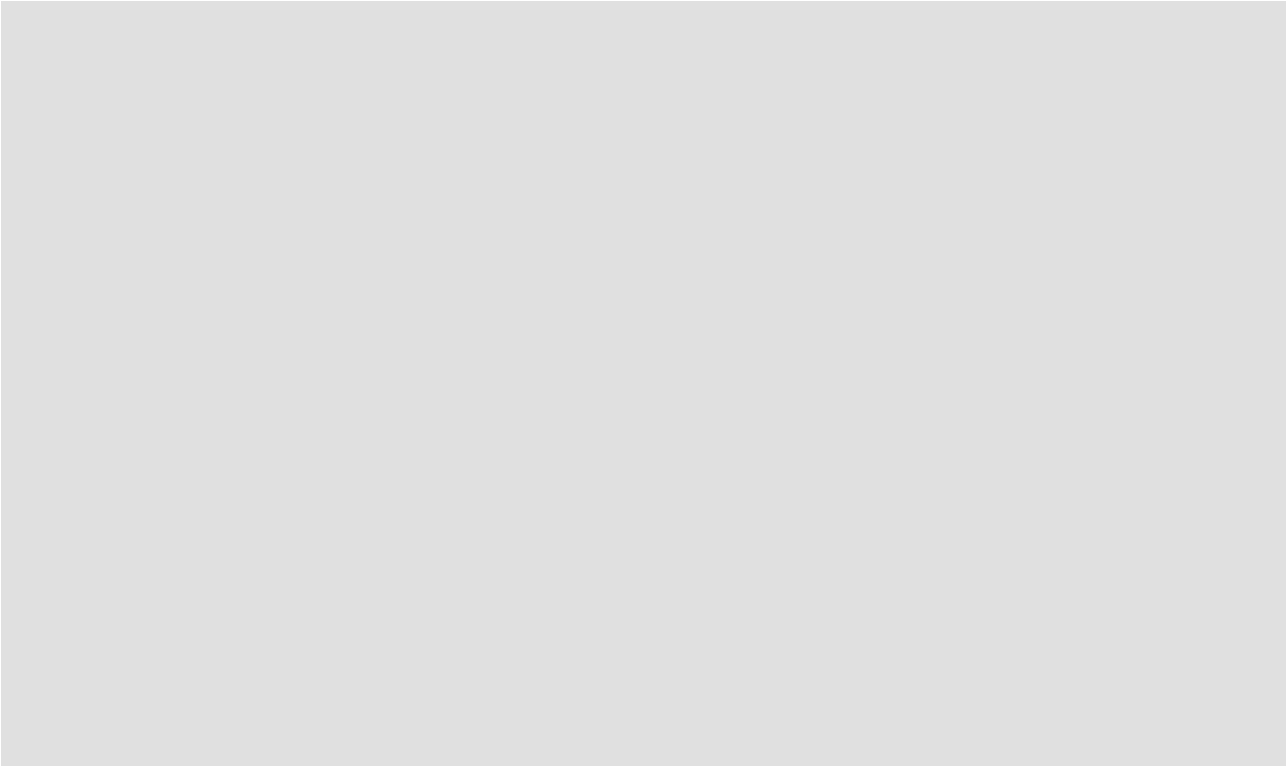




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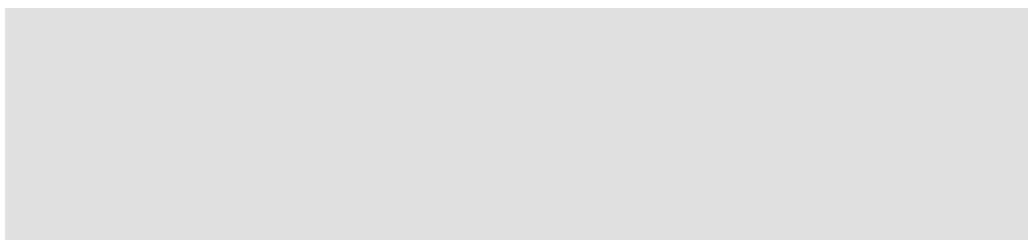
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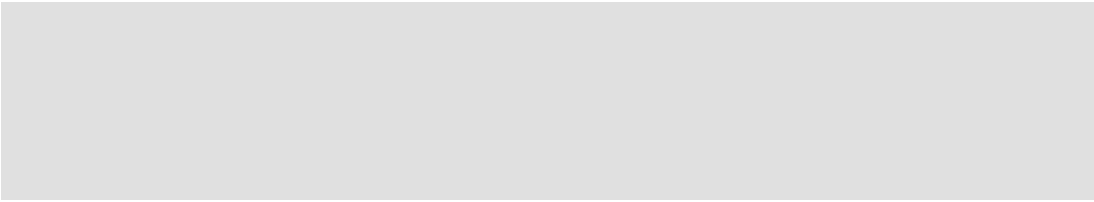
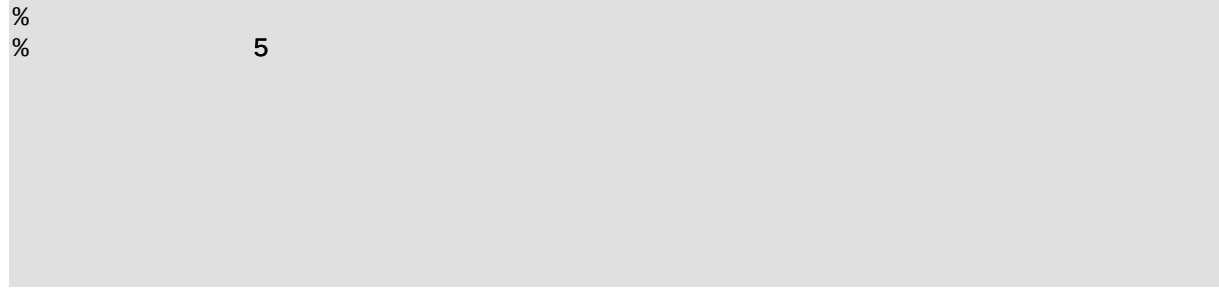
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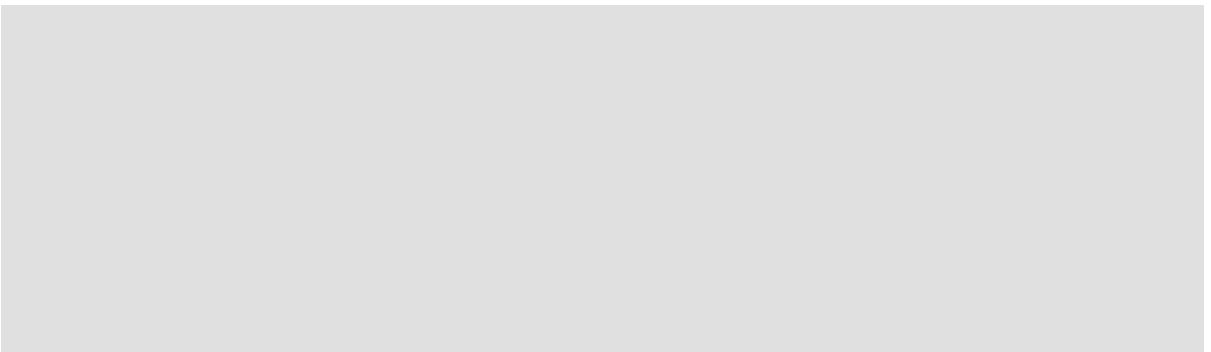
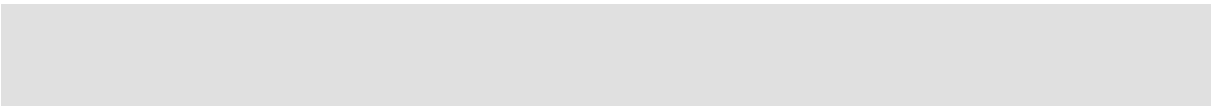
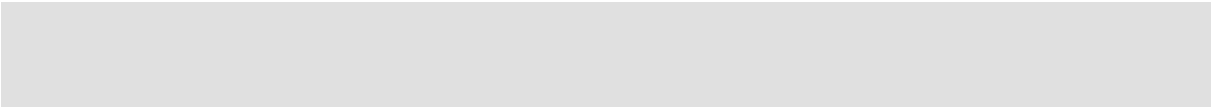
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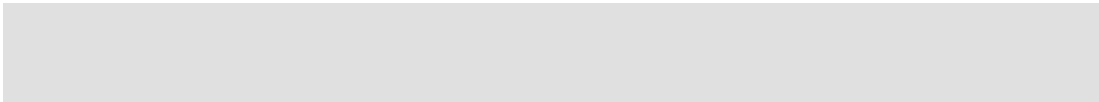
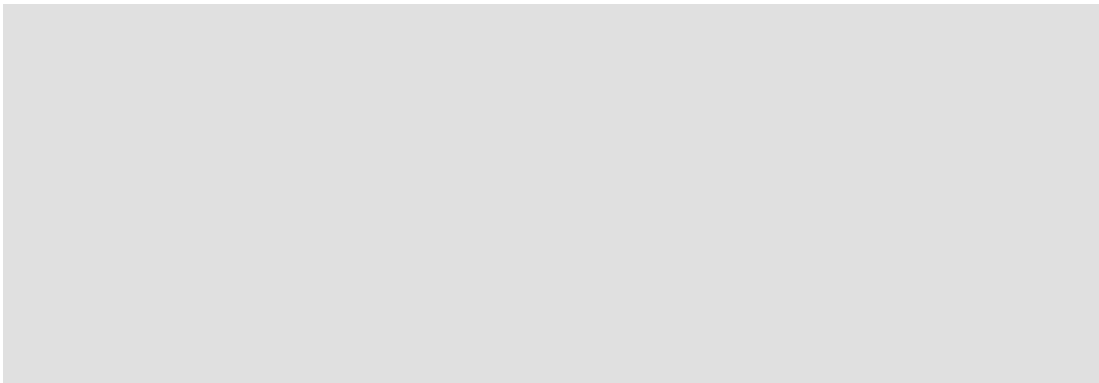
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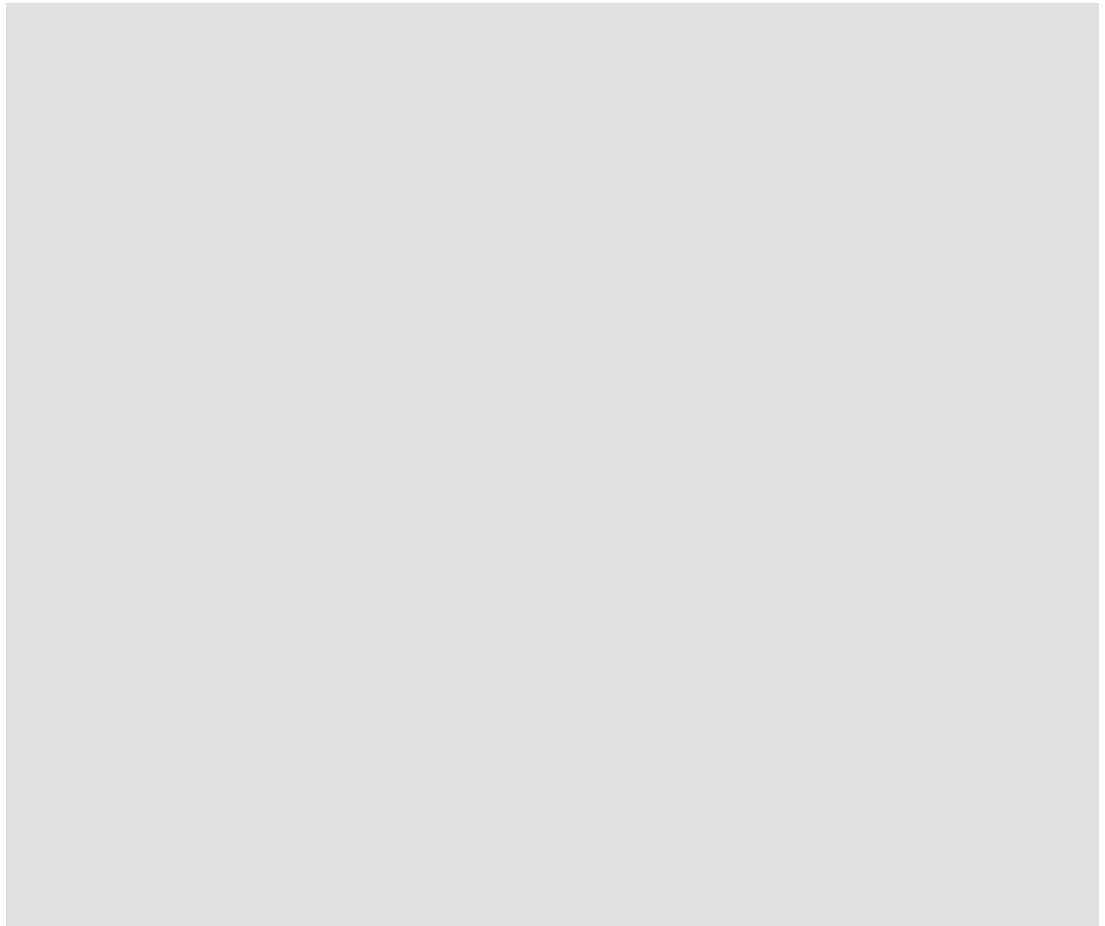
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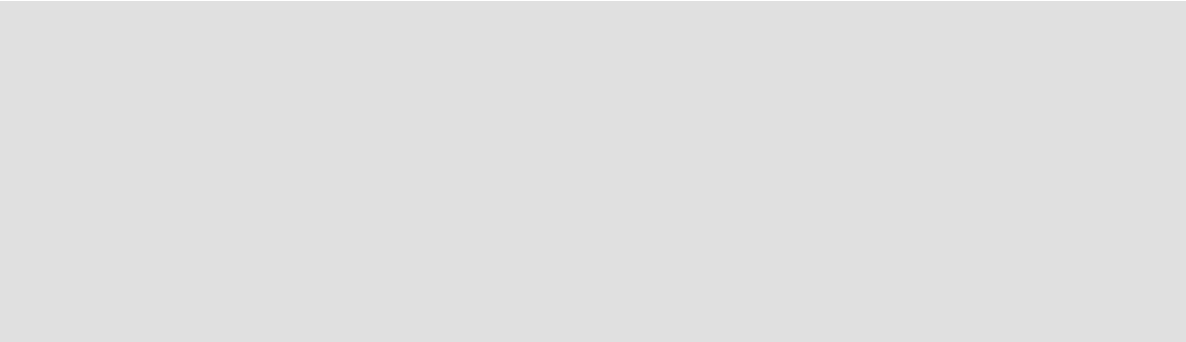
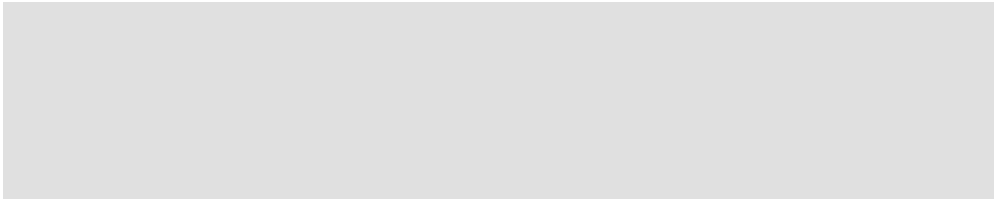
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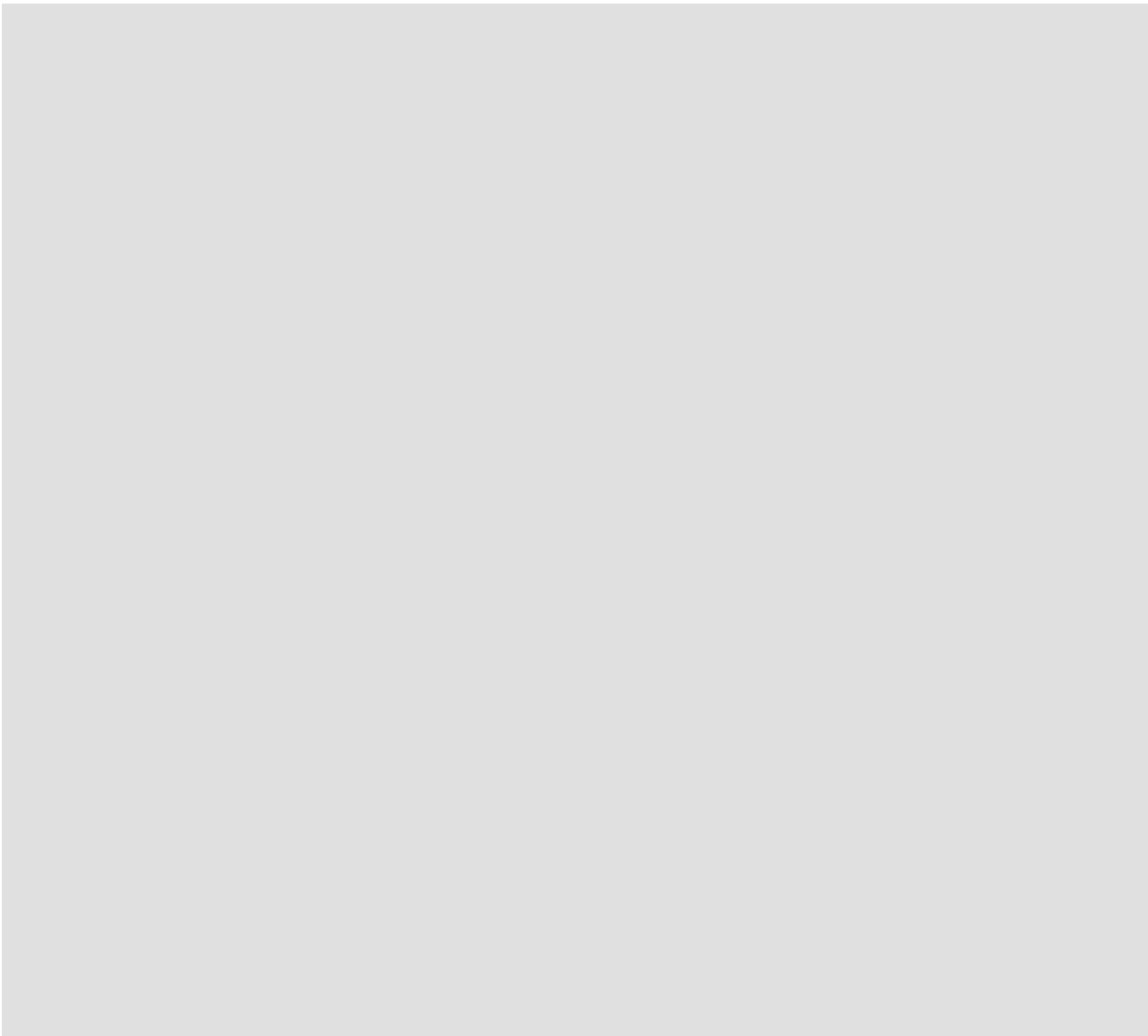
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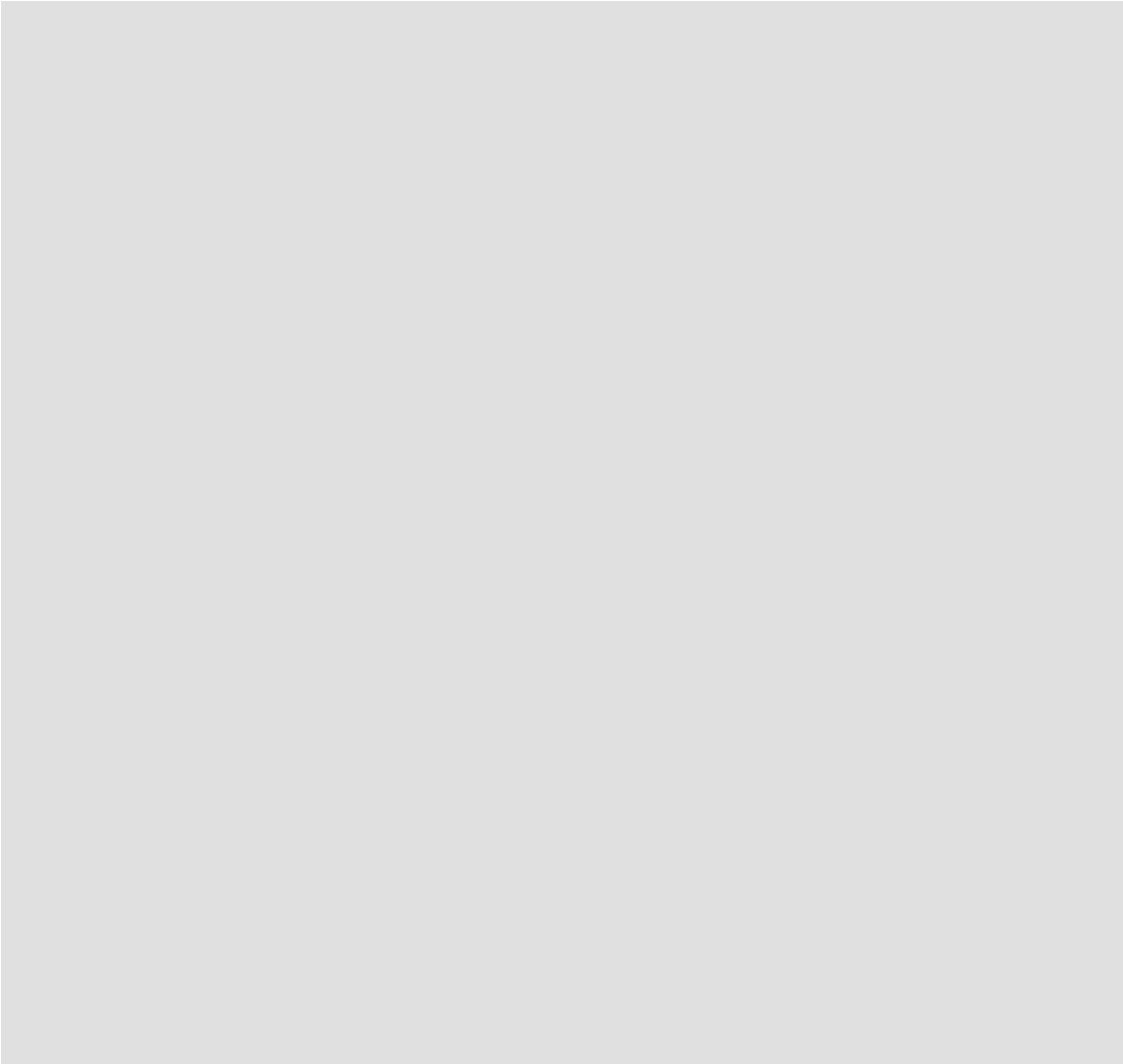
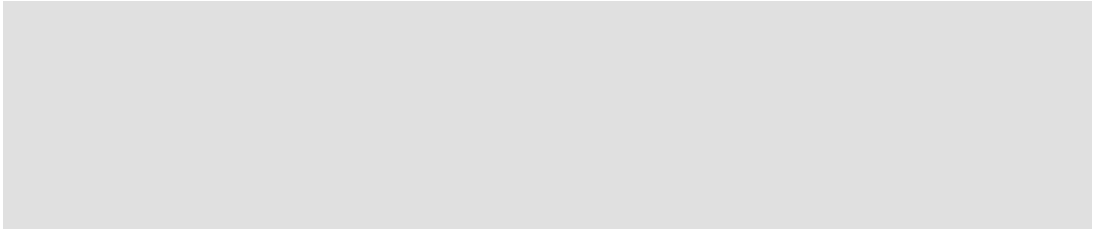




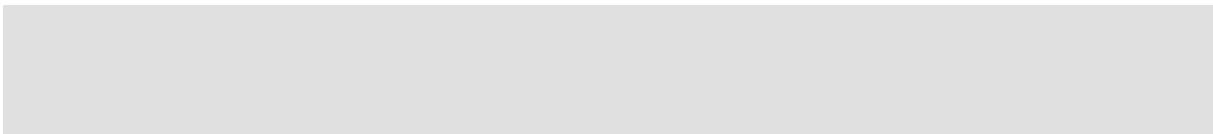




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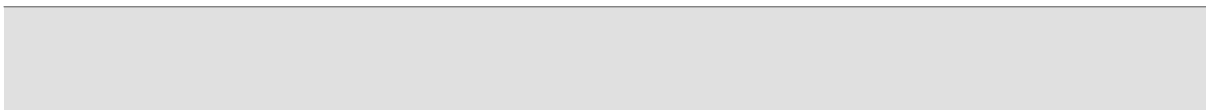


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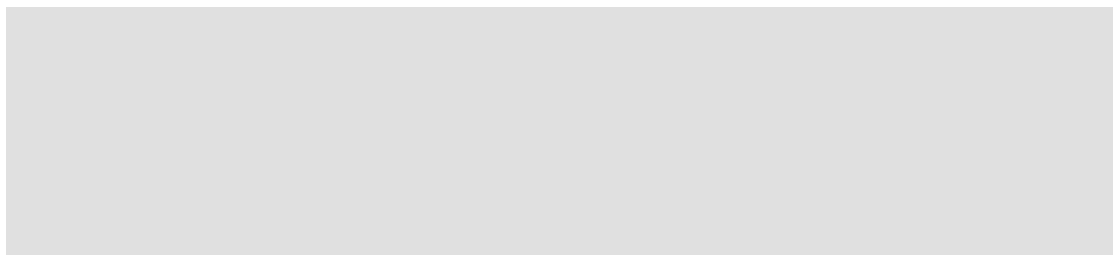




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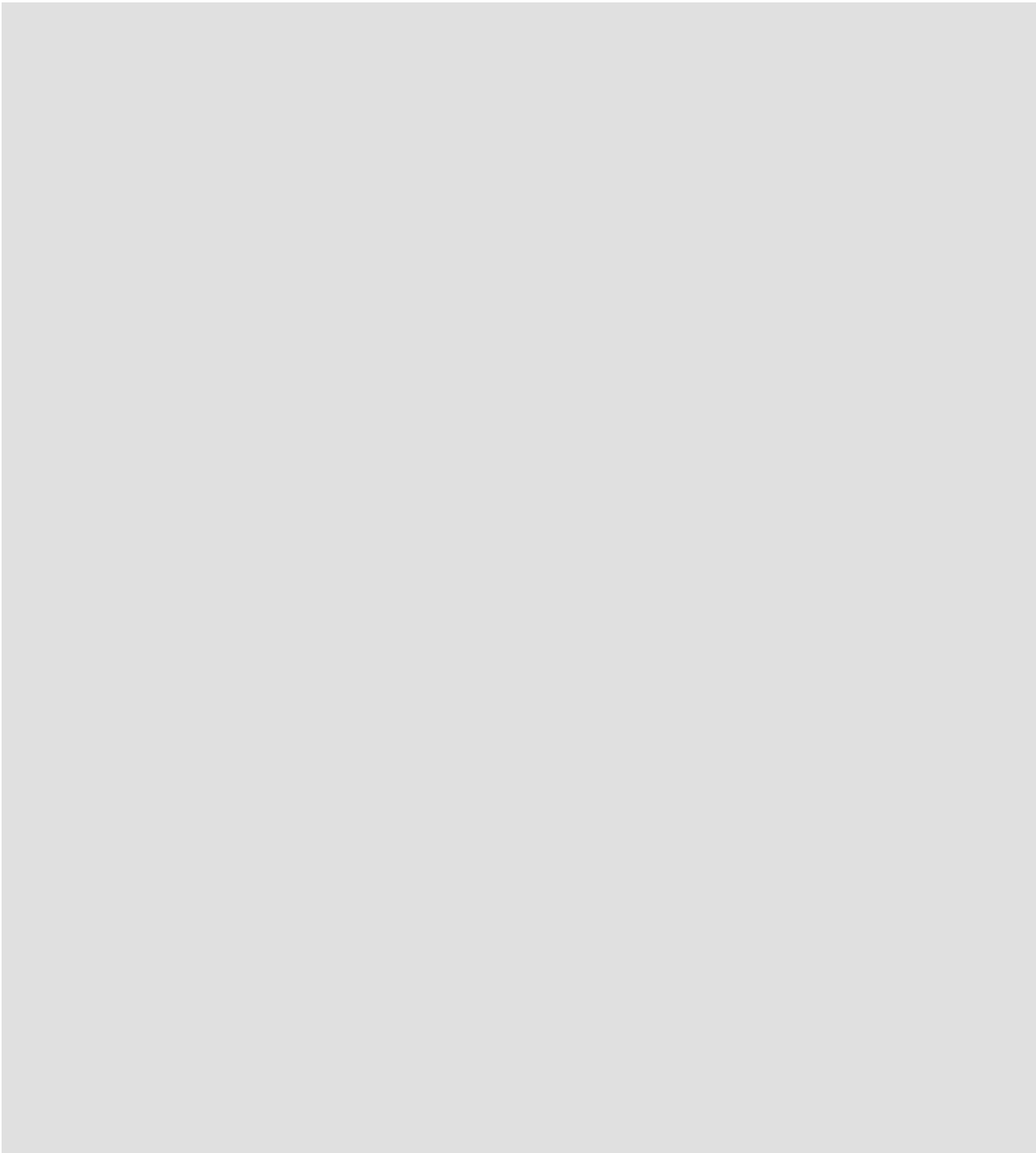
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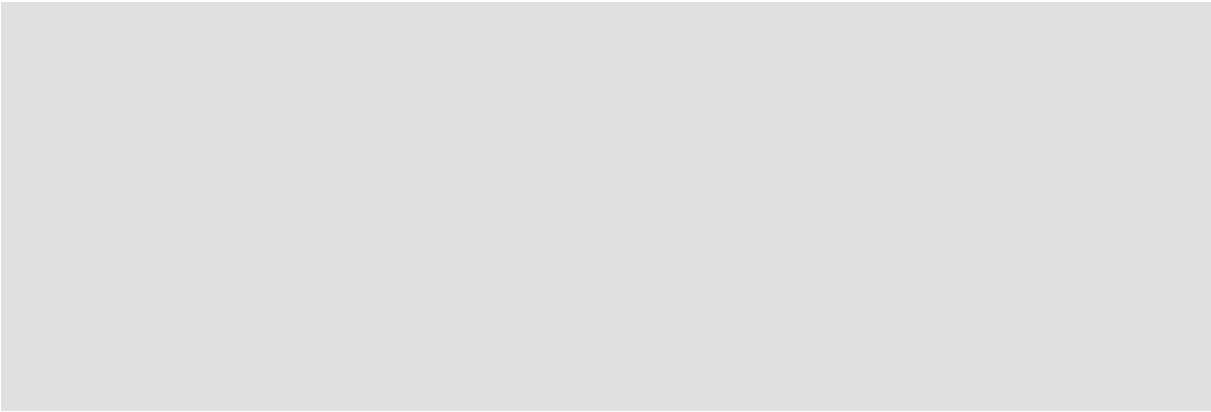
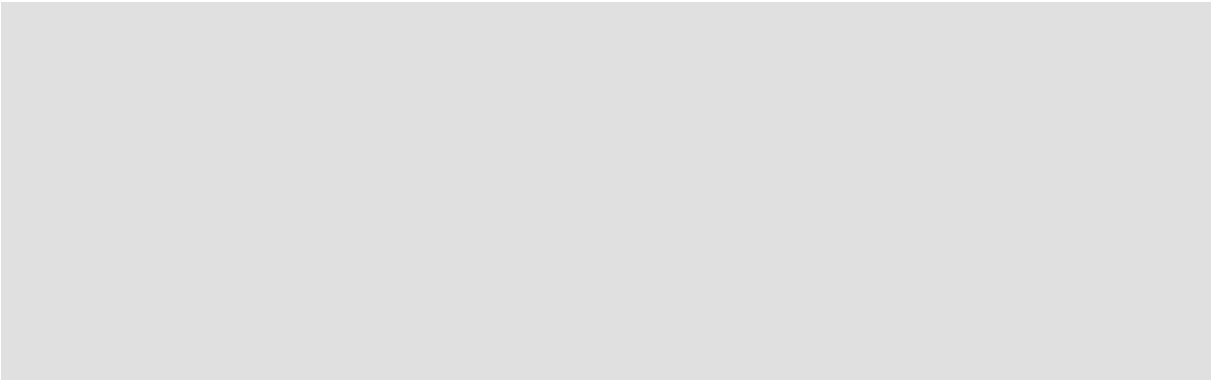
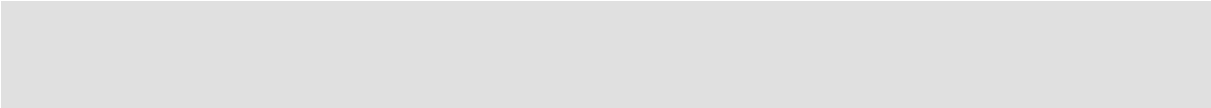


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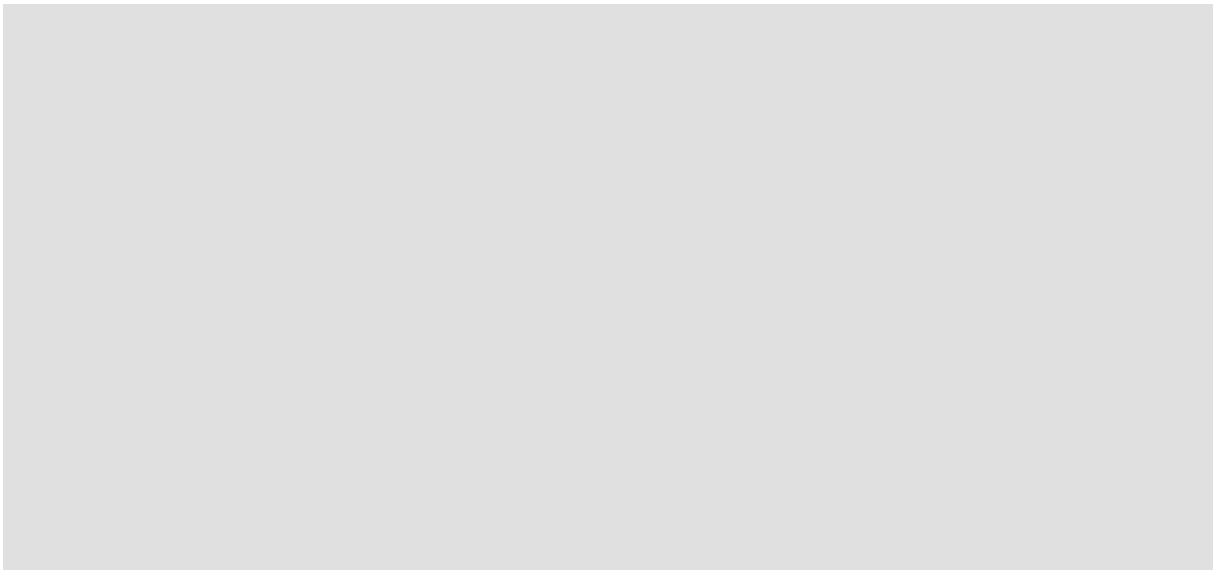
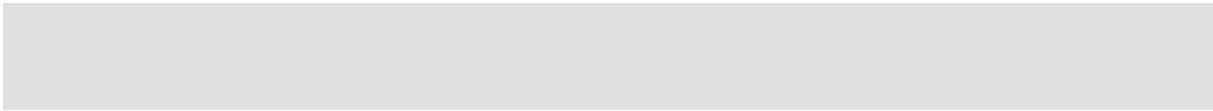
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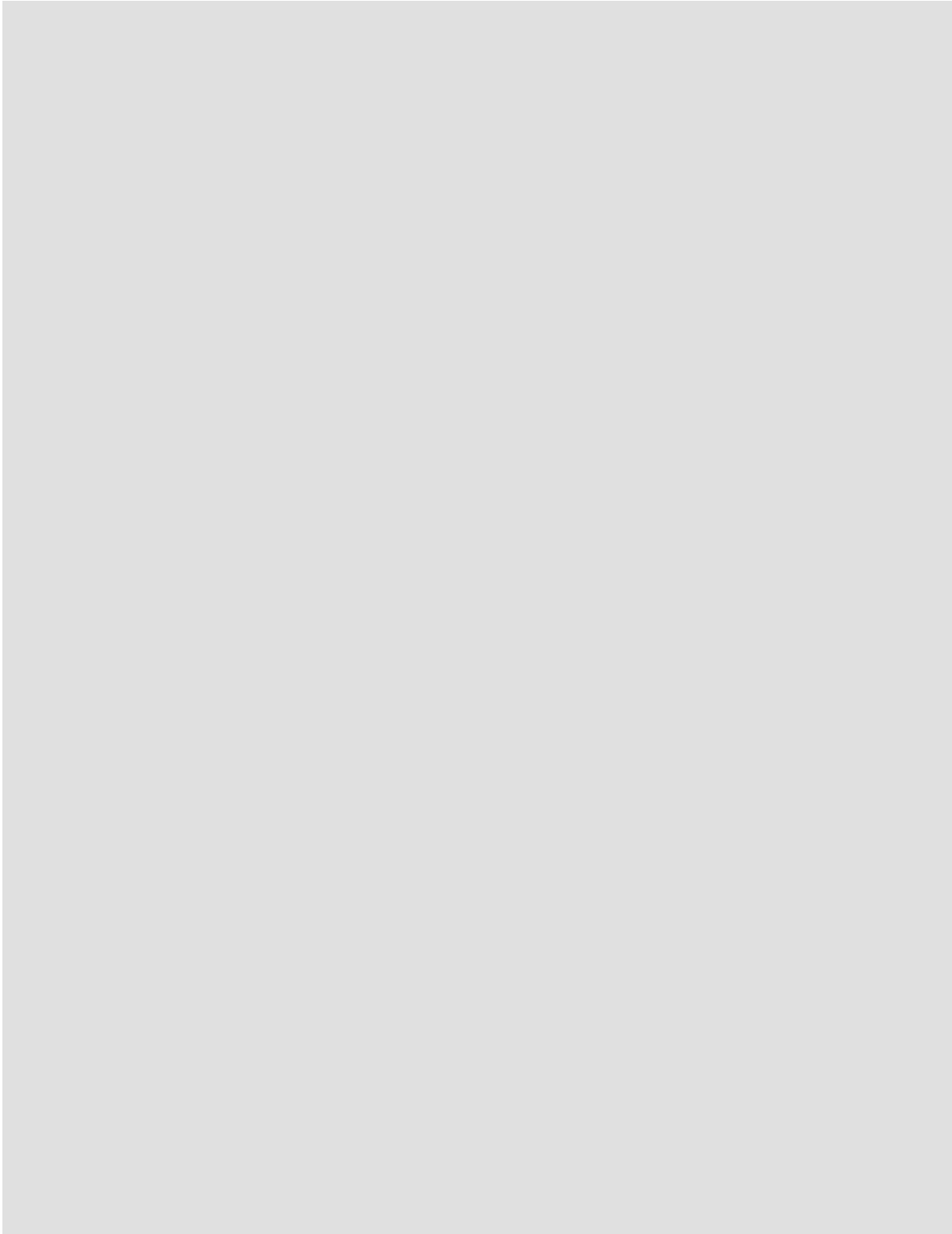


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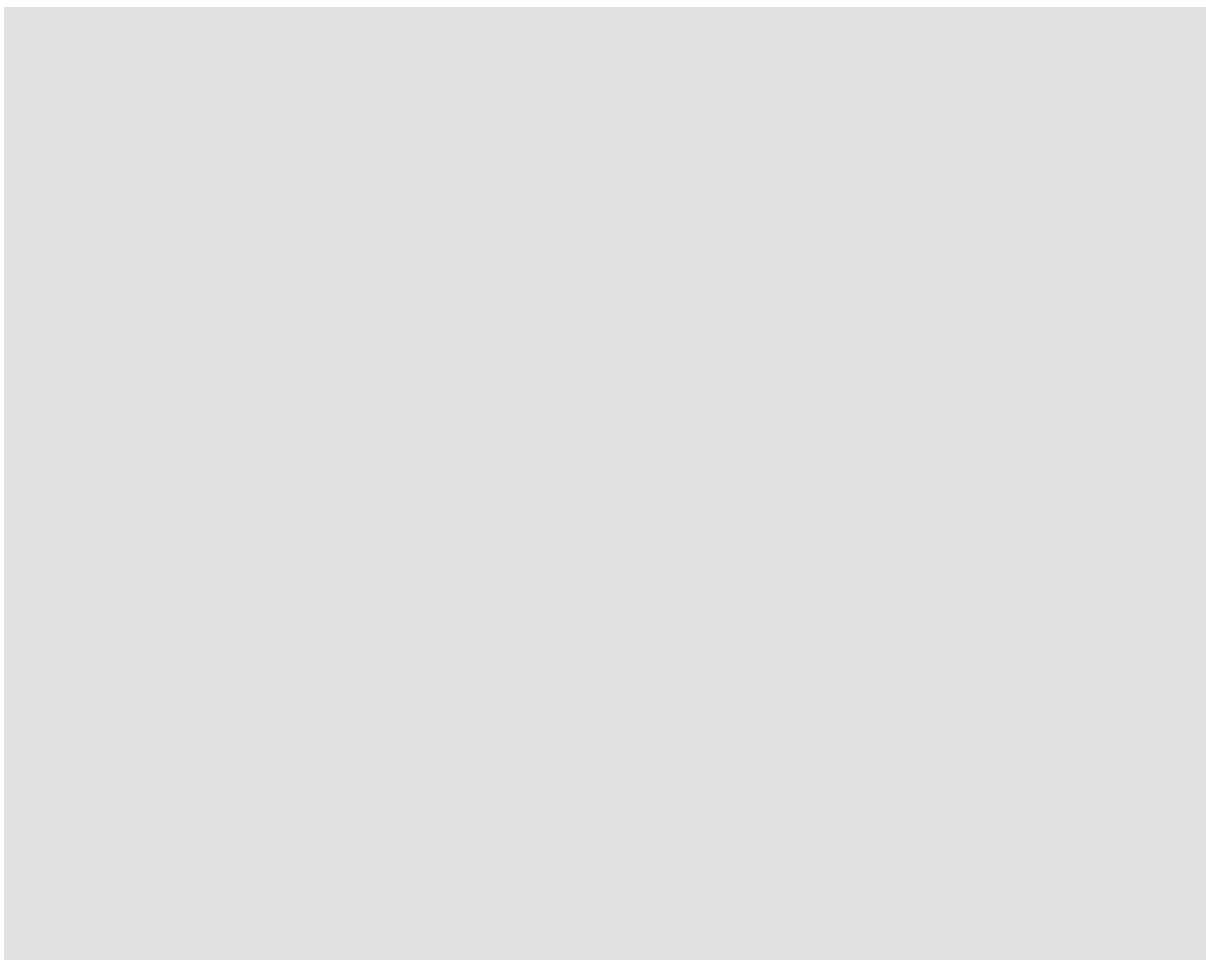
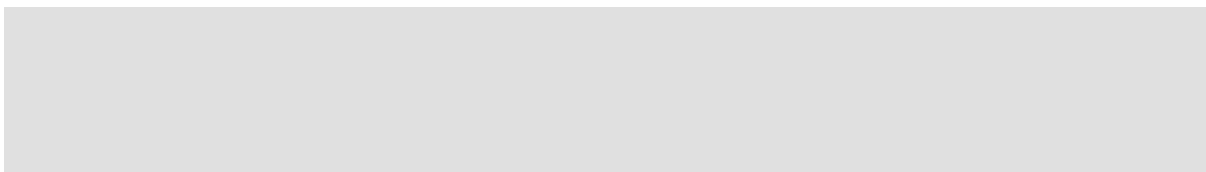






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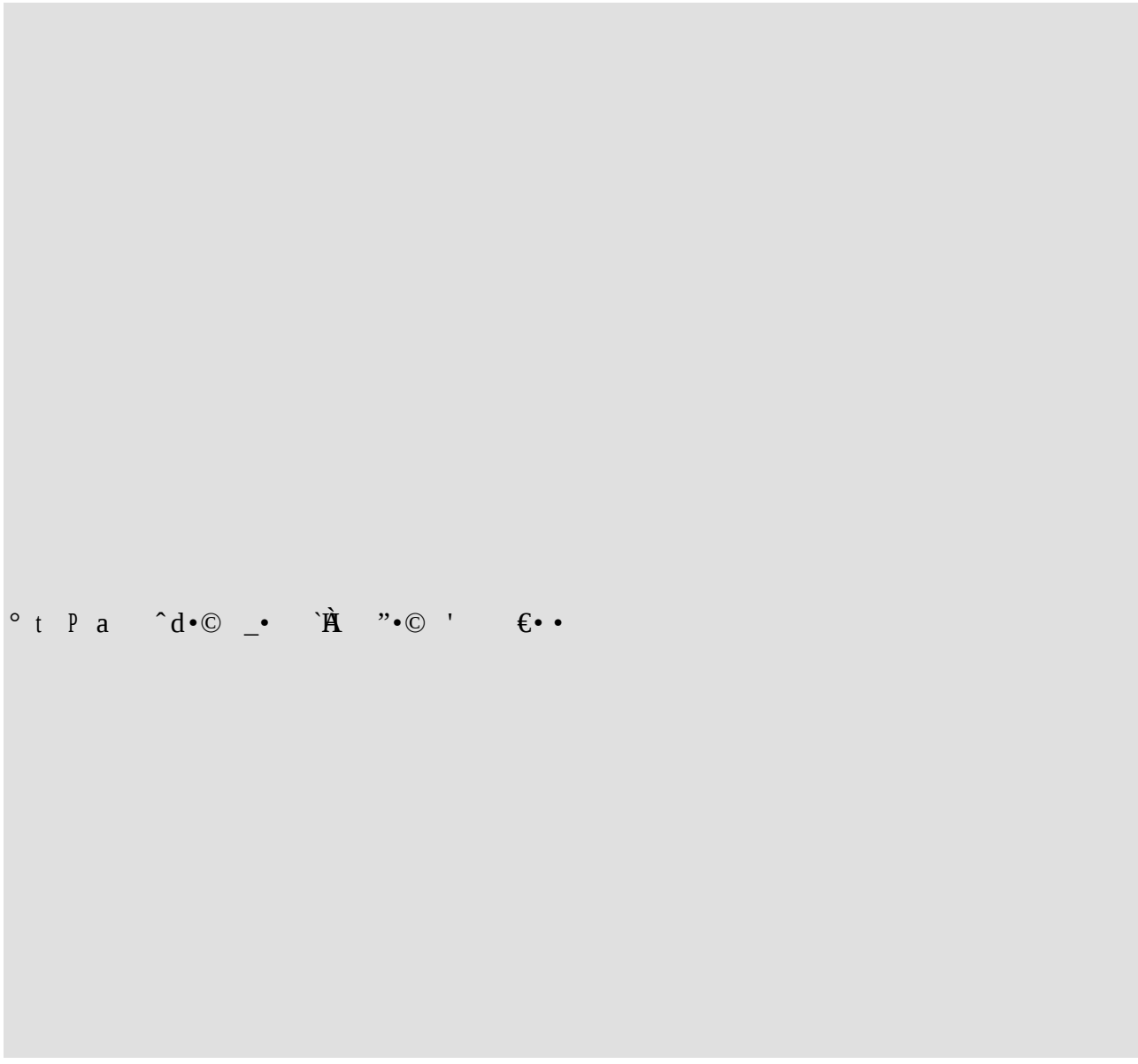
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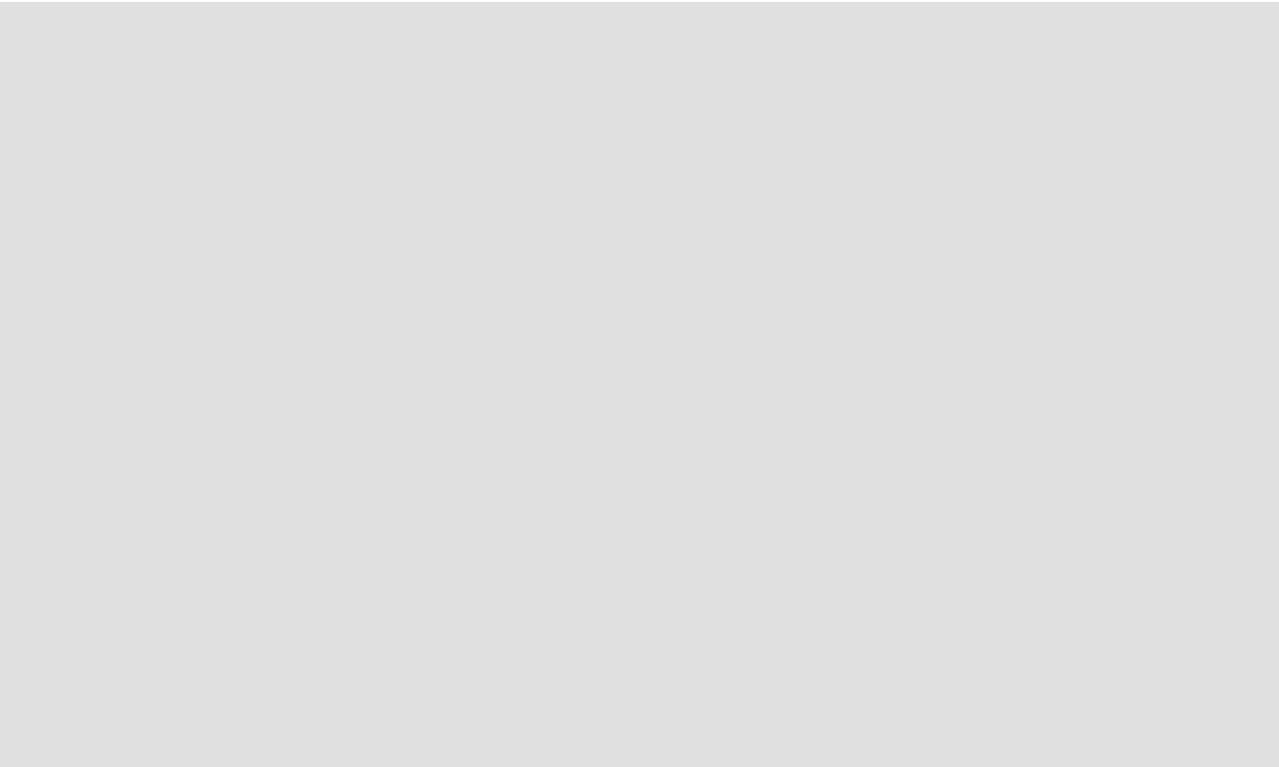
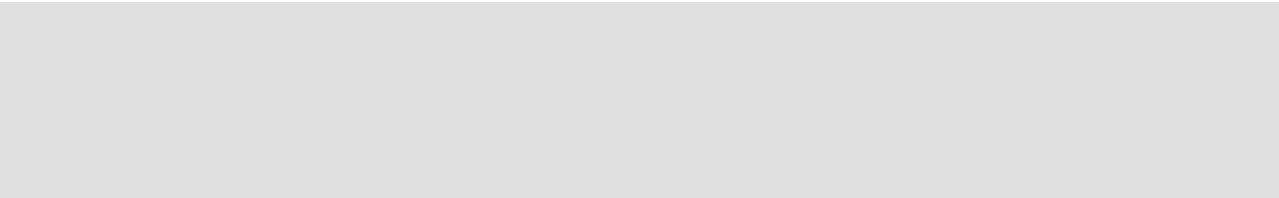


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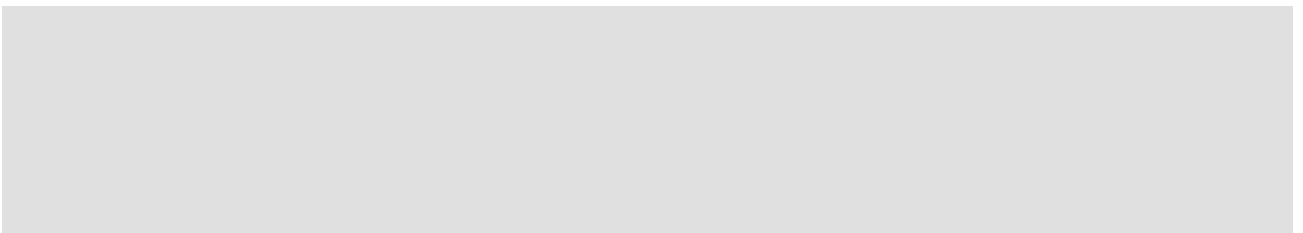
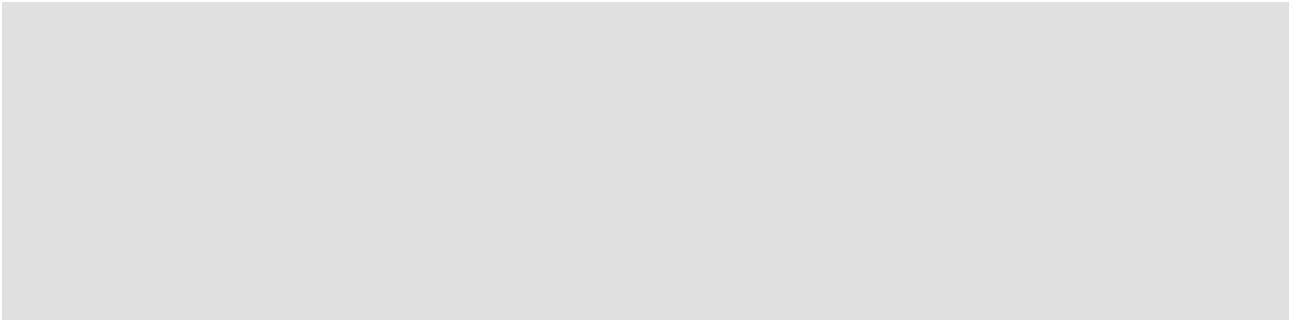
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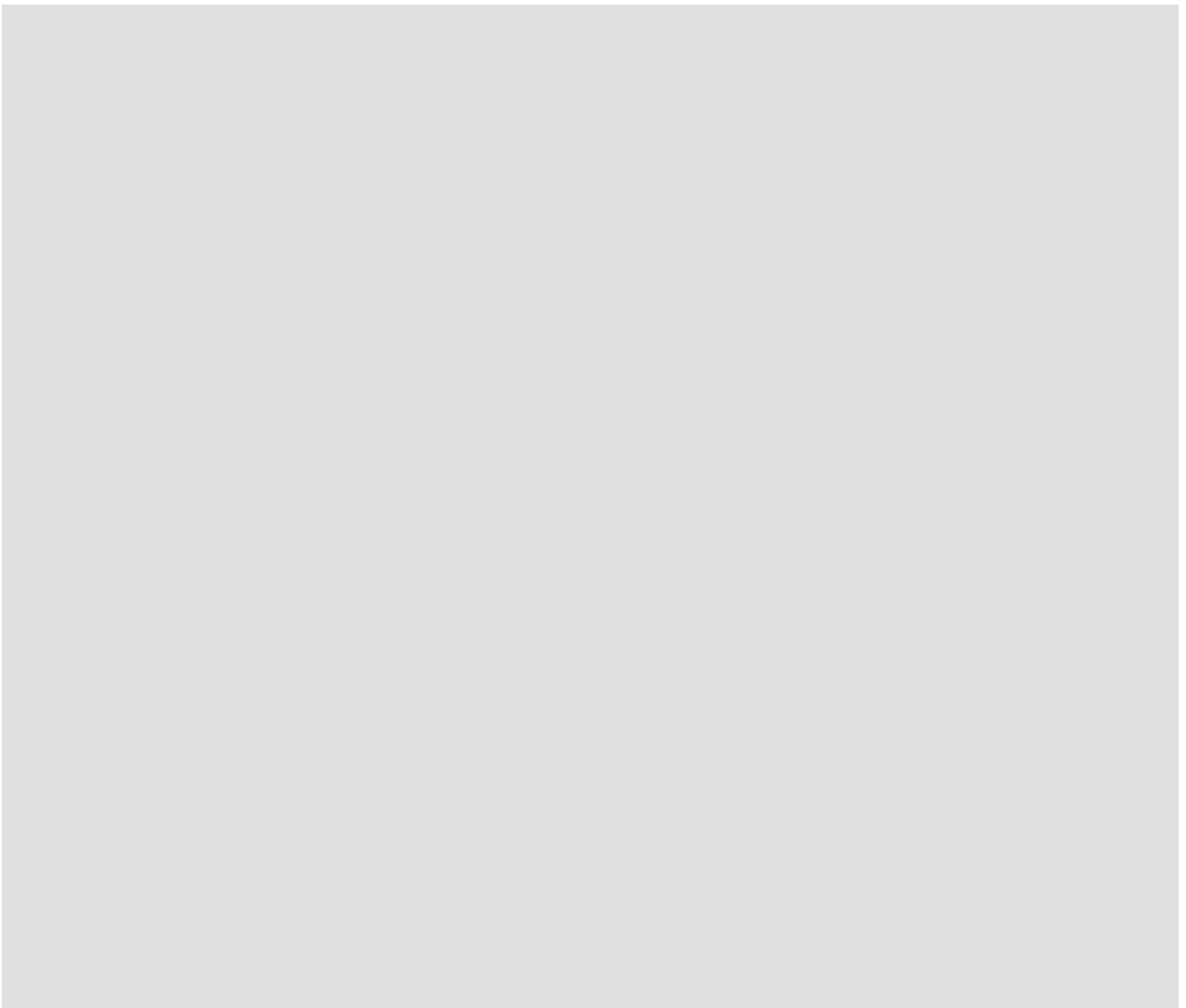








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8 ! L &"K\* q ™ x0a Y!8 % •A.),0I 20AB3` +.)\*C  
8 G L &"K\* q ™ x0a Y!8 % •A.),0I B\*.A3` +.)\*C  
% -,+(0 ,A(;I0\*('0)+(0 .20A,D(( B>K0F (I0`\* J.=CK(< 2A(.A(\*0\* 55  
%Y I.63=C W™X (=20(=>M0/(0 WYXk

8 7 L ! G8  
8•A.).+ +.)\*0< L 78

V c

5( ) ( {- 8dvcg7 L pet 0a#q dAp \$+dA° '

```
% ~2, )(J.F 8E      F8 1, 3+,1,/(0 ()2.=C1.B,/(4 p*:.:  "reQ0<
V      c
```

5 ( ) ( { - ; A < • \* ( # \$ ( # ! \* # 8 &

%Z

```
%Z
%      7
% †B*.A] <      [
% y, *, ] !c G# c1
% 9(D0/1(4] PxN\
```

```
% 7
% †B*.A] < [
% y, *, ] !c G# c1
% 9(D0/1(4] PxN\
```

```
% †B*.A] <      [
% y, *, ] !c G# c]
% 9(D0/1(4] PxN\
```

```
% y, *, ] !c G# c1
% 9(D0/1(4] PxN\
```

% 9(D0/1(4] PxN\

[illegible]

```
% ^*.$(HD0"1( Š.c 0 40$$$12ñB"+0 †B,,0"(<] "0{,,/0 # " 0"(1
```

## R

!PDÀ < L&"K\* q



```
8      p*. I(/(I,=C/.0 1/, '0/(08
8      V p*. I,+)(I,=C/.0 1/, '0/(08
5 8      3+,1>B,0*3+,1>B,0*3+3.<0&.=M=J>*C*>*B,0* X'R•òxF
```





G

```
% j,I /3M/. ).16,*C *.=C+. 2.=.M(*0=C/>< I,))(B (/60+).BF 2.p*.I3
%Y /,I /3M/. 20A0I0?0/(0F +.*.A.0 J360* :,A,/*(A.B,*C
%Y 2.=.M(*0=C/>0 A013=C*,*>
```

```
L WwC5      XX
WW L {      }S  L { V      }S  YL      E^XXS
7 m Y      nLc
```

```
% @A.:./(I D(+= J.=CK.0 +.=('0)*B. A,1F '*.J> 3B(60*CF '*. 2.=3'(*)4
L!ccc % †B*.A )D0/,A(4 2A06=,,:,0* !ccccCF
%Y /. /, p*. 2.*A0J30*)4 6.B.=C/. I/... BA0I0/(
```

```
WW Lcs { }s YY XXS
```

```
% &JA,*( *0 B/(I,/ (0F '*. 160)C ( V 3+,1,/> B .JA,*/.I 2.A46+0F
%Y '*.J> )60=,*C 2A,B(=C/.0F B p*.I )=3',0F ;3/+D(./(A.B,/(0
```

```
E 7 { V} { } { E^}
```

```
x x L#          % -.)*C (I00* # 2=.)+.)*0<
<r a,"0q L#cc  % ...B0=('C*0F 0)=( 3 B,) I/... )B.J.6/... BA0I0/(
  7Lc          % -.=('0)*B. JA.)+.B +.)*(

  Lc          % j0.JS.6(I. 3)*,/.B(*C )'0*'+ B /.=CF
7  Lc        %Y *,+ +,+ /0 2A()B.0//,4 20A0I0//,4 (I00* 1/, '0/(0      F
          %Y , j" /.=C

  Lc
```

% @0A02(K(\*0 p\*.\* )D0/,A(<F 6=4 2.6JA,)>B,/(4 I./0\*> !ccc A,1  
% H>J0A(\*0 8&•"98 ( 8•" -† 8

ffQL W 5! z 5e ! z 7• €{ G }€z 'c X  
% @)0B6.5)=3',</>< B>B.6 (1B=0+,0\*)4 (1  
%Y W;,<=, 3)\*A.<)\*B, )()\*0I> 2)0B6.5)=3',</>S '()0=XF 1,\*0I  
%Y 8 8 2A0.JA,130\* B )\*A.+3 '()0= 6=4 B>B.6, WB.)CI0A('/.0 2A06)\*,B=0/(0XF  
%Y 1,\*0I 8 7•8 (1B=0+,0\* \*. =C+. .6/. '()=. )0= ,3'. =G/\*/. '()<N6 F

8 .6)030\* %Y)=,3<.0X5)8 -(













cF      Q                      C      Q              I D      Q                      L      K 9  
E      .

```
%      •L      rE[!G\rE[
      LLLLLLL
- V      $      8      •8 €„W m 5 n mr5•n   mc5tn„X€-      %      rE[!
- V      8      •8 1 €„W m 5 n mr5•n   mc5tn„X€-      %      rE[!
- V      8      •8 1 €„W      „X€-      %      rE[!
% H)0 p*( 7 cv,`* .v(/,' #Ä 30çÂ
```

=      E      Q                      CDVIQ                      VJ

cF      Q                      G      Q              I D      Q                      L      K 9  
E      .

=      Q                      B      CDVIQ                      VJ

cF      Q                      G      Q              I D      Q                      úqD      QK 9  
E      .

```
%      •L      rE[!G\rE[
      LLLLLLL
- V      8      •8 €59„Wmr5[nmr5[nmr5[nm 5 n „X€
```



% u)2.=C130I J(/,A/>0 ;,<=> 8 8 (1 2,+0\*, 8 8F  
%Y ).2A.B.M6,0I.:. E , W ^ 5 X





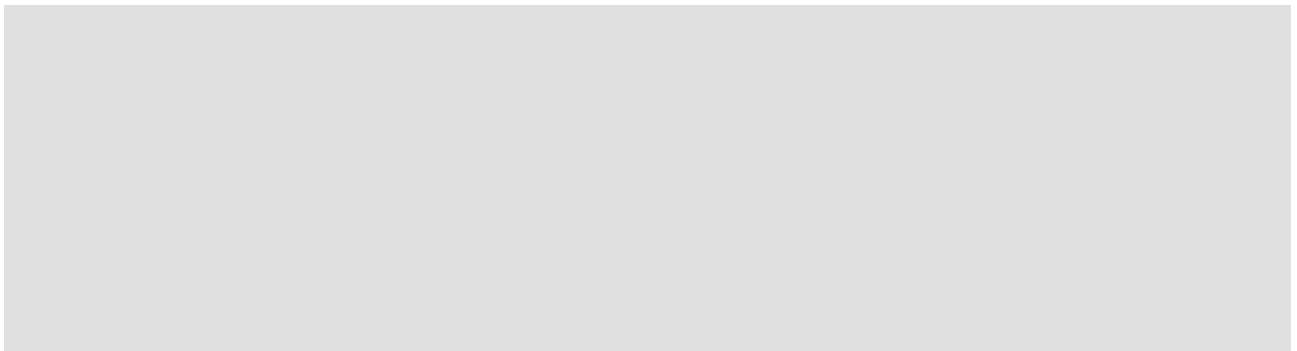
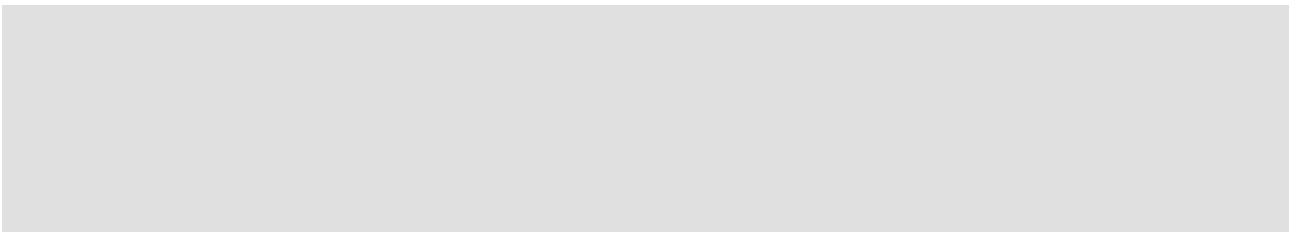




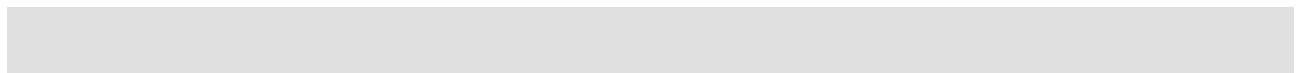


5 ( ) \$ &

†1‡

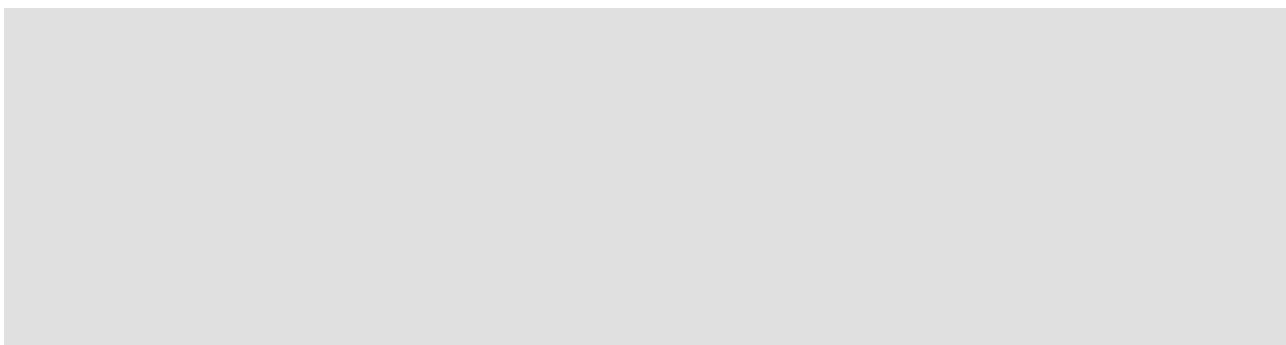
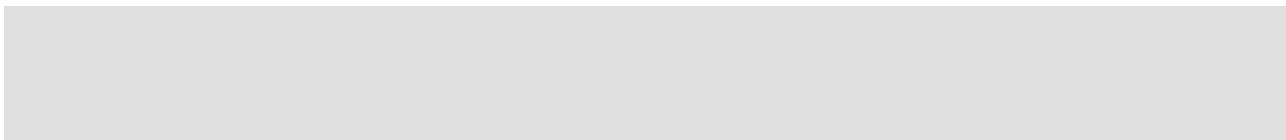


% H>B.6(\* /, p+A,/ -



```
%  ")=( /0 3+,1,/.( /.0F A,J.*,0* )=063`?(< J=.+ +.I,/6
%Y ;,<=, 8
% j,',=.5J=.+,5+.I,/6
%
%
%
% &+./',/(05J=.+,5+.I,/6

% u1 2A(I0A, 8      G      8]
```





```
1 {a f P}
  8o/, '0/(0 a f p*. a f 8
  s
```

```
1 {•• ^G\rEP8•• ^G\rE /0 2A()B.0/. 8}
```





% 5

% ~..\*B0\*)\*B(0 K,J=../3 ( )2.=C13`?0:. .20A,\* .A> % %% TM TMTM B 2.6)\*,/.B+0  
%Y 2,A,I0\*A.B

!L !G%g #lc% #B2i@#1lit  
!L ; ž X "ã - öö ±&- ööäpw7 2!pp...f!iis % ~."0 !# M6 B 0S" 2,A,I0^A.B

```
%Pdu#00A%..fj|S!B% 2.A!C"A n 2BXpw@.q2i~7t8!/A=Aba0B 6RXö)ZóÅA,A0AiB0-RæOh)F
```

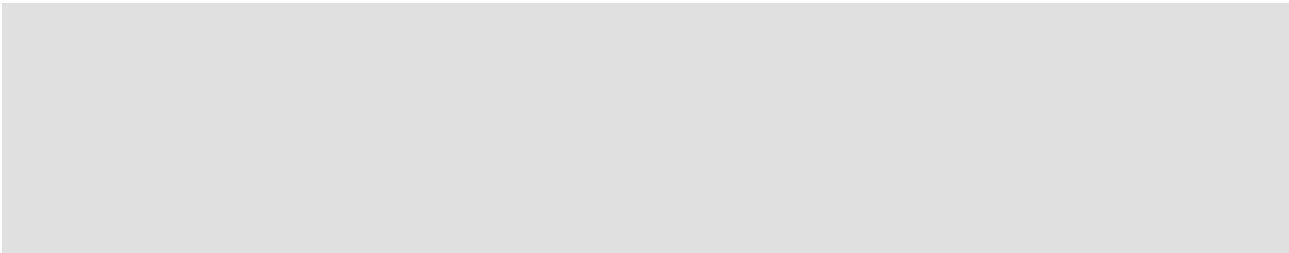


f ErQr"P L#g

```
# %  
c`!X      % H0A*(+,=C/,4 '0A*, .1/,',0*F B p*.I +./*0+)*0F 8u9u8  
      8b    ] -      c- )*,A>< )3;;(+);, <=, /.B>< )3;;(+);, <=, 8  
V      f ErQr"P      % ")=( ,A:3I0/*.*B c =( !F *. B>A3',0*  
::  
#
```

95 !



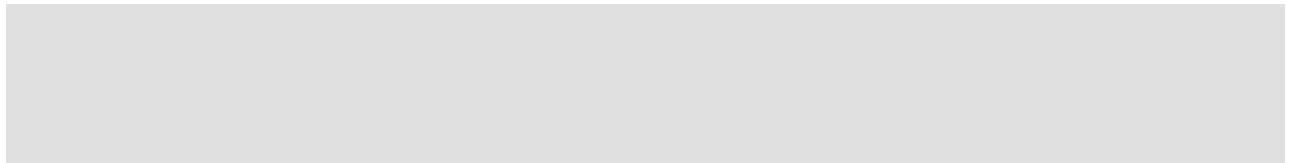
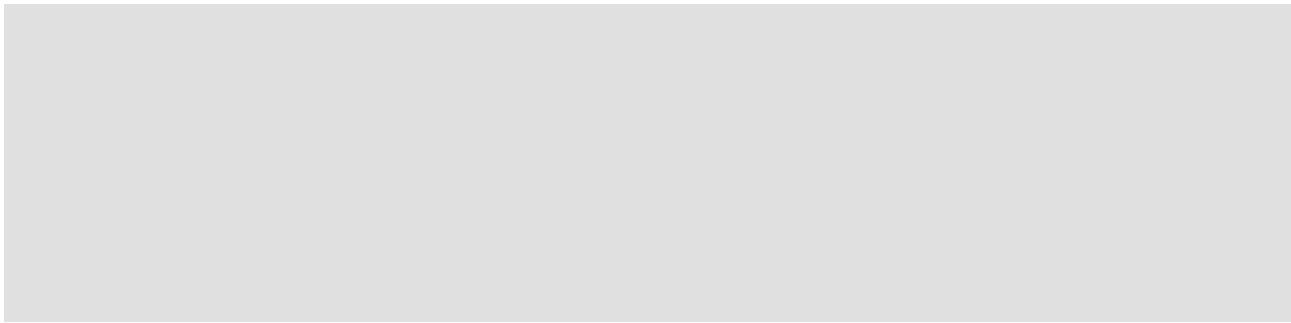


8 L dđ...."^.&8 Eh,Du Eh,Dx•

8 L dđ...."^.&8 Eh,Du Eh,Dx•

SSS€

11.2. J G  
11.T. M G H ,  
11.4.





%Z  
%

Nf L8

7 •

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^

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% ~2().+ (/ \*0A0)3`?(S ;, <=.B

% @.I0?, 0I 23)\*.< ;, <=F

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m Z 5 8

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/0 )3?0)\*B30\* 8s









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% 555555555555555555555555555555555555555555555555555555555555
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8 W                    ^ 5 ^                    X8                    % 5 ^                    L )(IB.=('0)+,4 ))>=+,

^L {!5- 7 -}  
% @. 3I.='',/(` 5 \*0@}

S

% YLLY

% d020AC )60=,0I \*. M0 ),I.0F ()2.=C134 )(/\*,+)( ) [(

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MM L!"A+ ... -†,,Mò

V • G

% ~.16,0I (1 \*0+)\*.B>S ;,<=.B ;,<=> B ;.AI,\*0 V

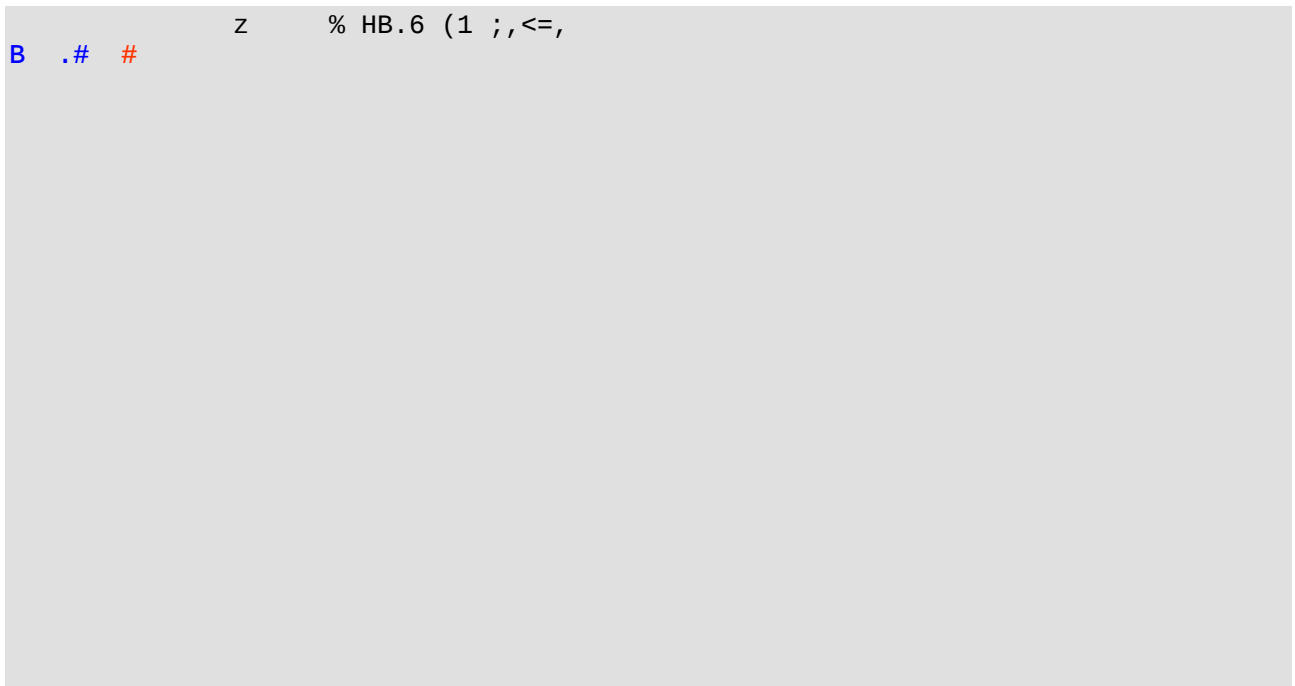








B H B D ' H 8 G H !# I H BC H B 8 BN  
B G N B .# # I F BN ' C ' F [ .



5( ) ( ;;-;{< k !    &#

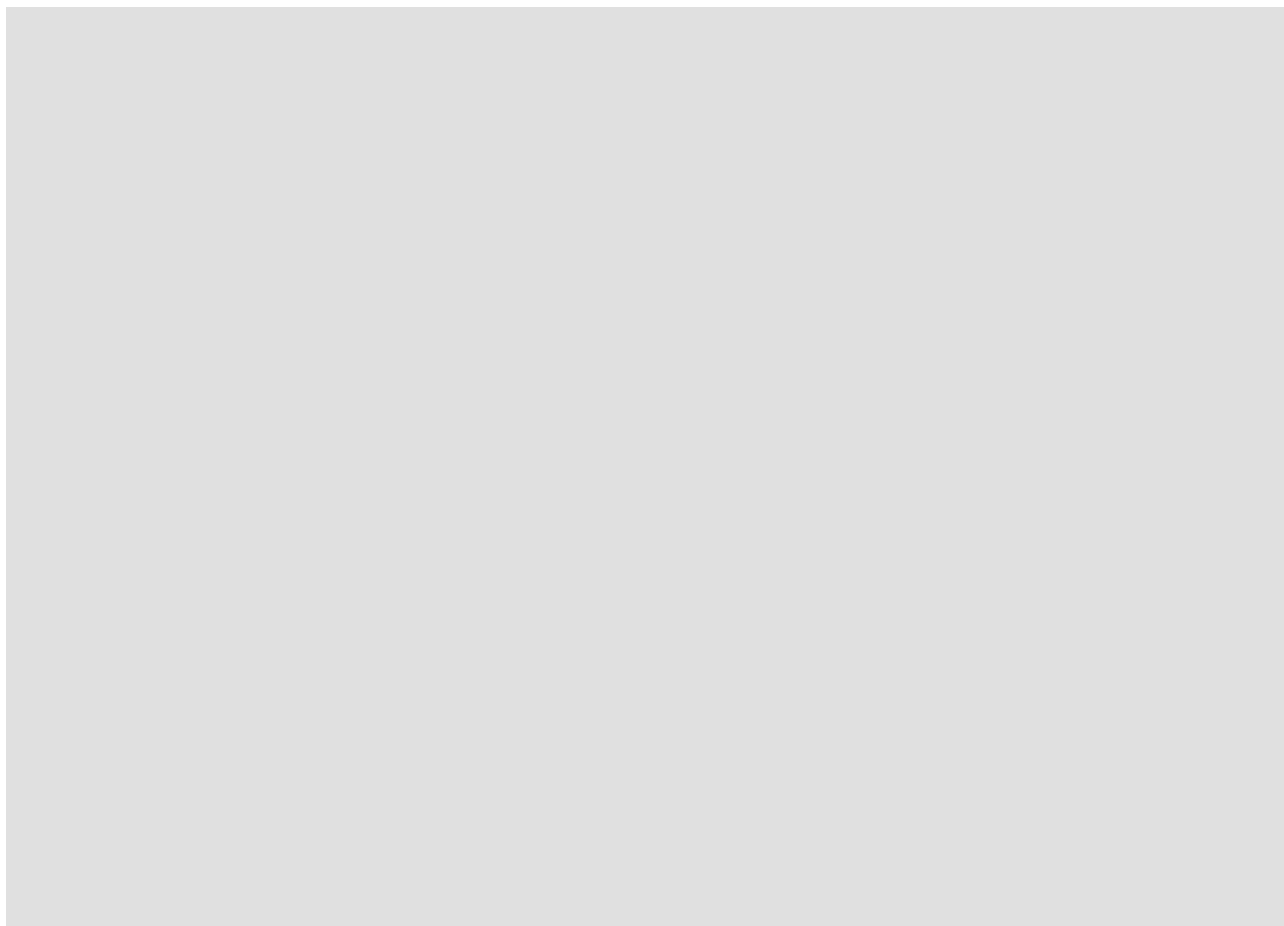
%Z

feQ [0eQ a 0eL

      m 8       !8 L 8 feQ [0eQ a 0e8 n  
% o60)CF B B0AS/0< ' , )\*( D(+ =, F /, S.6( \*)4 3)=.B(0 2A.B0A+(

8HB06(\*0 20A0I0//3` %! 8  
8W feQ [0eQ a 0e 6=4 B>S.6,X8  
      !  
8               %! L       !8

3 l \* - L G G I B G P ' @z G •Ÿ. 3 L 0











B .#

1,6,/(0

#xu x

xu) / " 0+ % x i

...

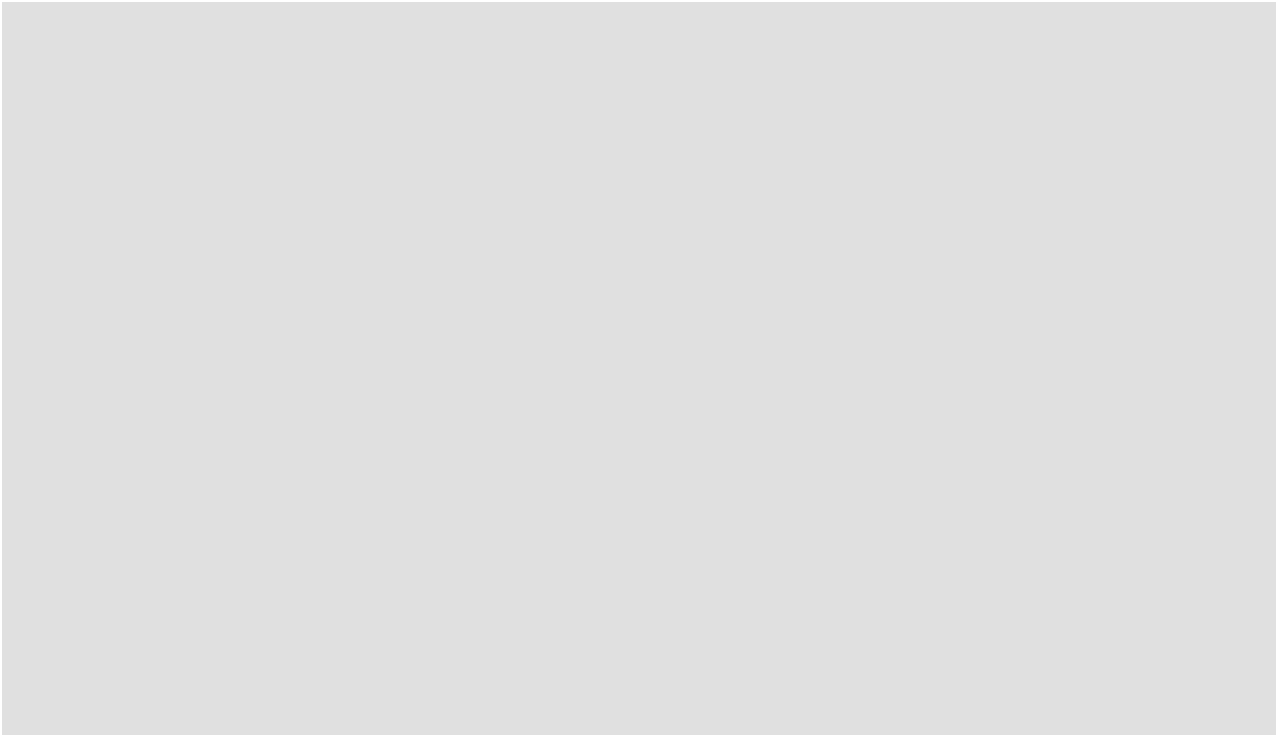
::

xu) / " 0+ % x i

...

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#

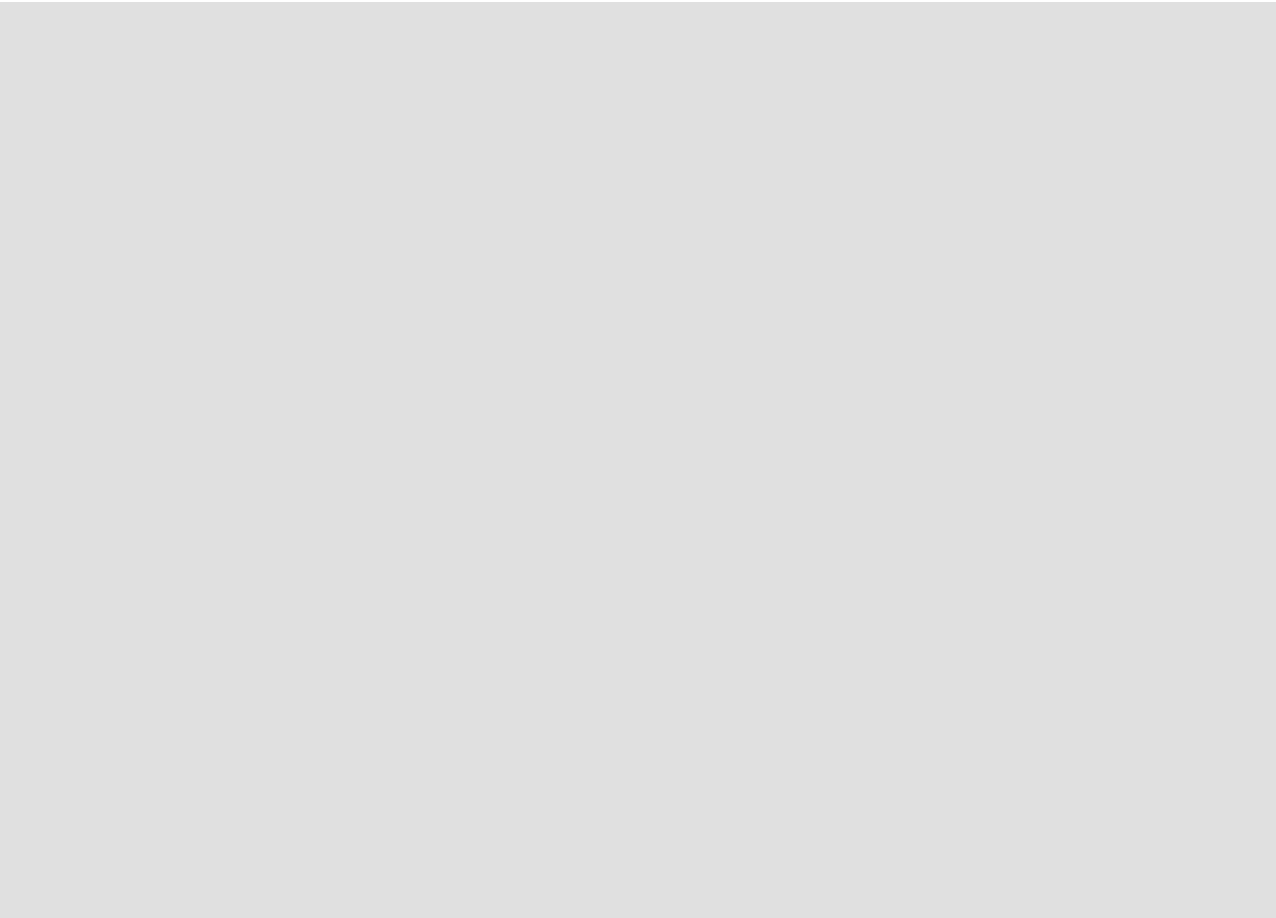
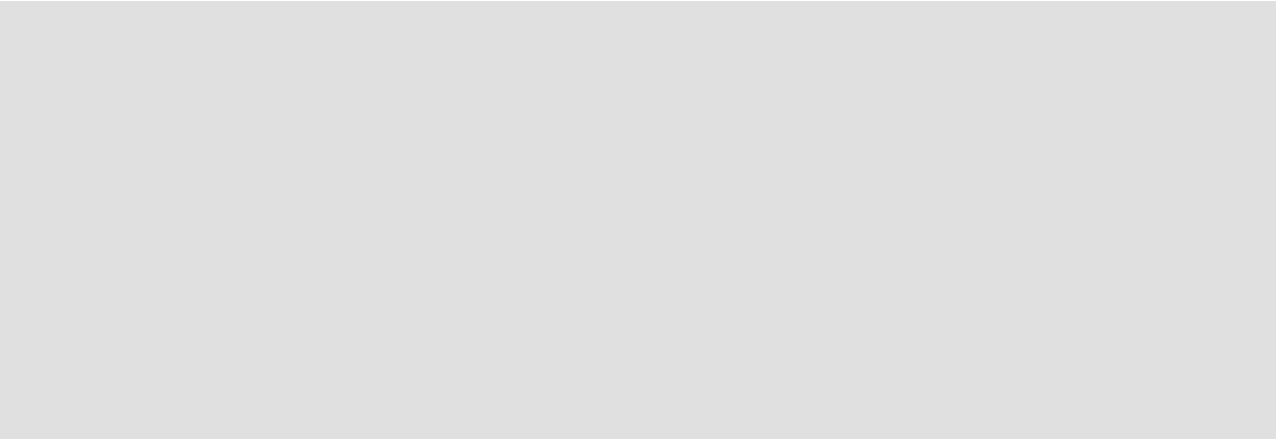






% u1 )D0/,A(4 € 8N G" 8F  
%Y ',)\*C 0:. 2,+0\*, 8 8  
% u)2.=C130\*)4 ) A,1A0K0/(4

5( ) ( ;;->p< 0 % : # \$ tÑ



k

% /0\* ).B2,60/(4  
% tc

8,,8 ,,8 /,'(/,0\*)4 ) J3+B0//.:. )(IB.=, 8  
G 8 8  
% j0\* )I>)=, B 2A.B0A+0F 0)=( 20AB>< )(IB.= /0 4B=40\*)4 J3+B.<  
8,,8 ,,8 ).60AM(\* \*.=C+. J3+B0//>0 )(IB.=> 8  
8,,8 ,,8 ).60AM(\*F 2B0\$7A>< I0K0F .7(- /0 J3+B0//>< )(IB.> 8

8,,8 ,,8 /,'(/,0\*)4 ) /0 J3+B0//.:. )(IB.=, 8

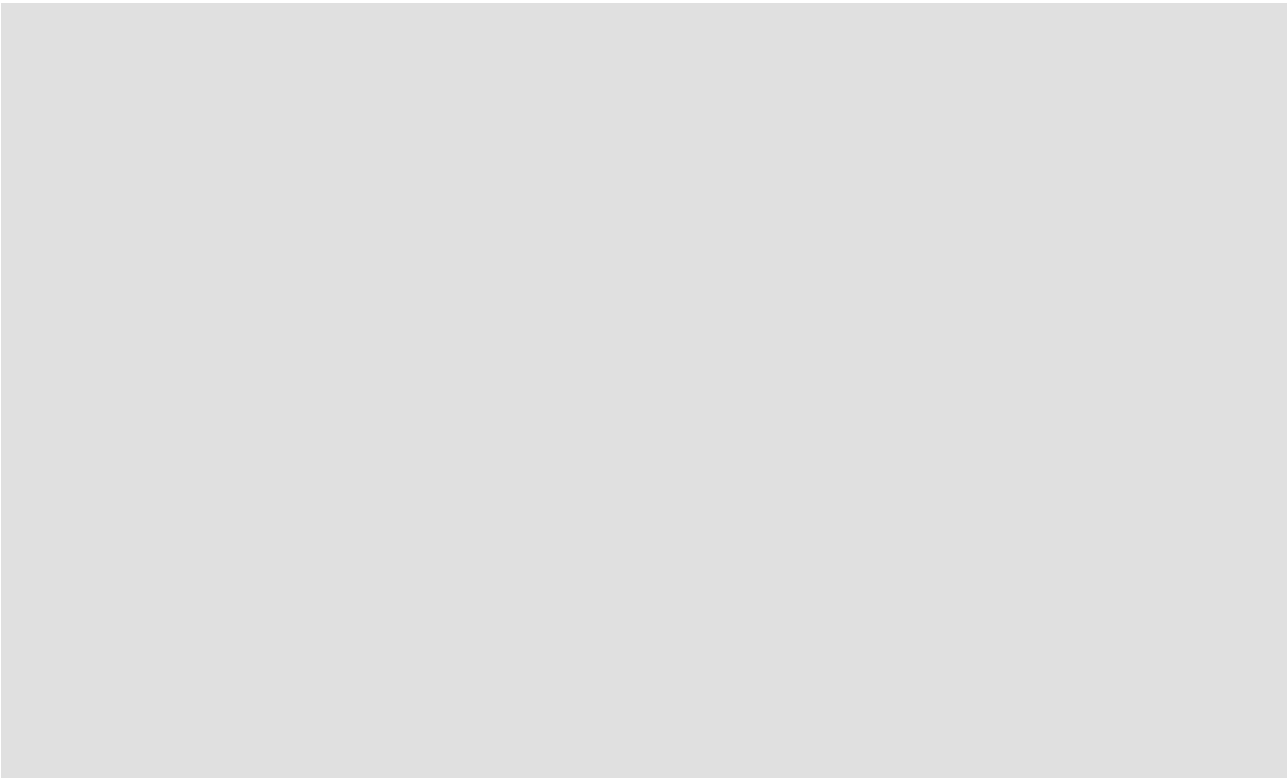
% 0)=( /8\* 200>0,//58 AJ9I</i.@F :. ,°B †/0 J3+0,Æ

## \$

V B G '\$ &I F H ' F l "3# /Qe44I ' ' ' O H BH H  
' F ' H N.

## \$&%'% % , † ‡

...







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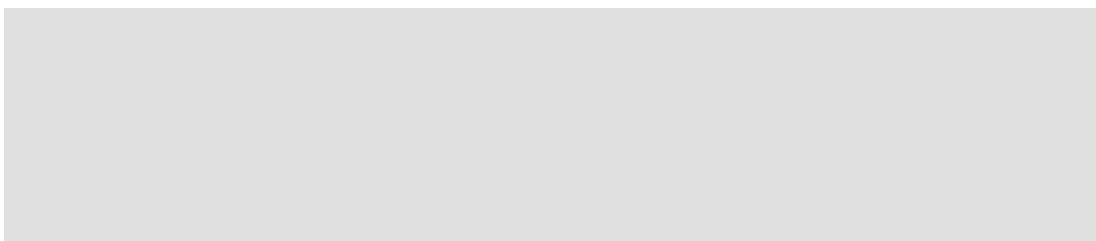
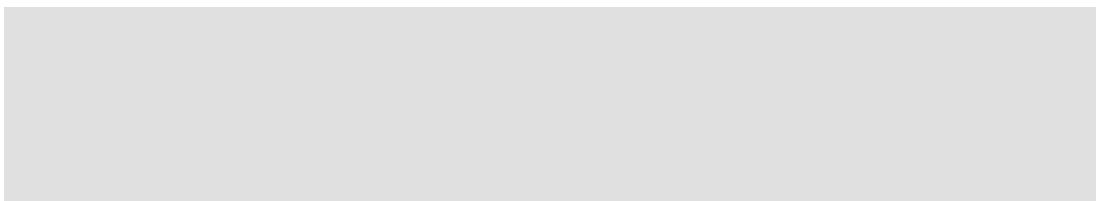
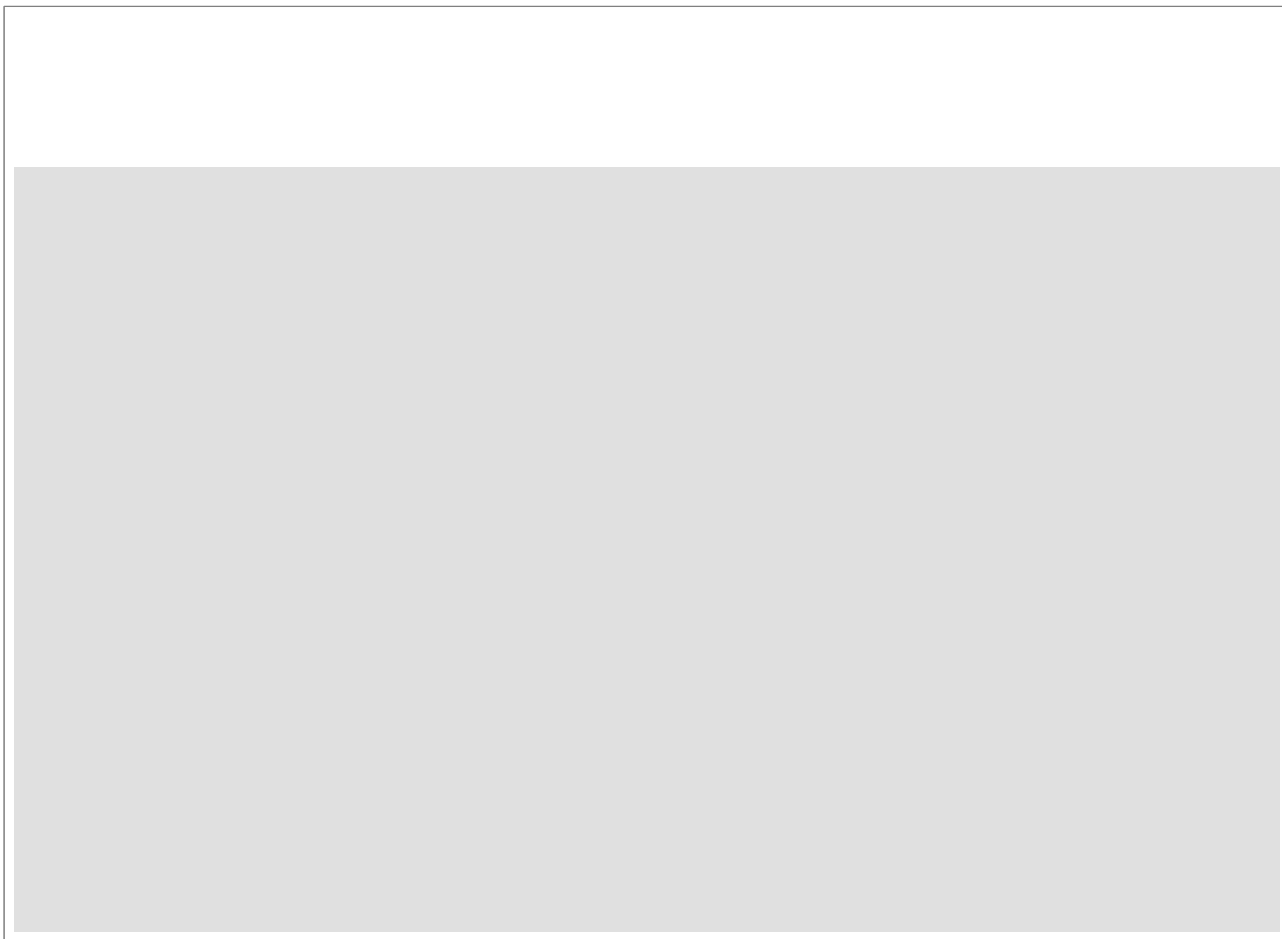
• 76(A0+*.A(4 ) )(IB.=.I 20A0B.6, )*A.+( B +./D0
7
76(A0+*.A(4 ) )(IB.=.I 20A0B.6, )*A.+( B +./D0
7
8- 7 -8 % ~..J?0/(0 .J .K(J+0]
%      ]      ]      ) )(IB.=.I 20A0B.6, )*A.+( B +./D0] j0* *,+... ;,<=,
%Y =( 6(A0+*.A((
8 xqQ8 % @A0+A, )/. A, J. *,0*

^      L&M      ^ 5 N      % ~.SA,/0/(0 )*,A>S /,)*A.0+ *0AI(/,=,
8j,MI(*0 +/..2+3 8
^ 5      5      % &*+=`'0/(0 A0M(I, *0AI(/,=, 8      8

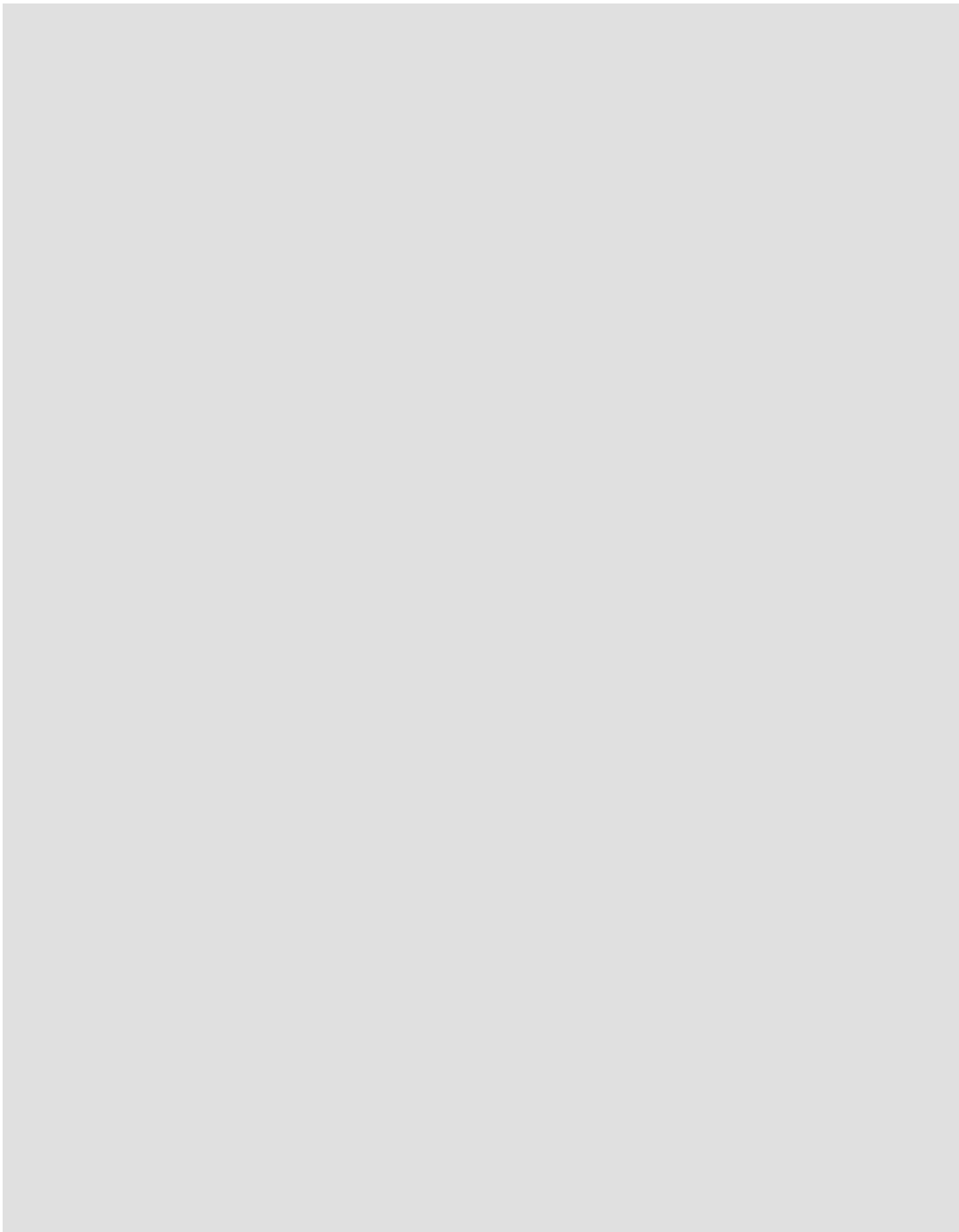
```



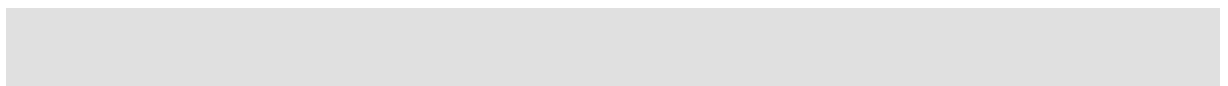
% 5 5 • ] j0 60=,<\*0 p\*. 6.0 /0 .6



a H H &M555N B J '.†T‡

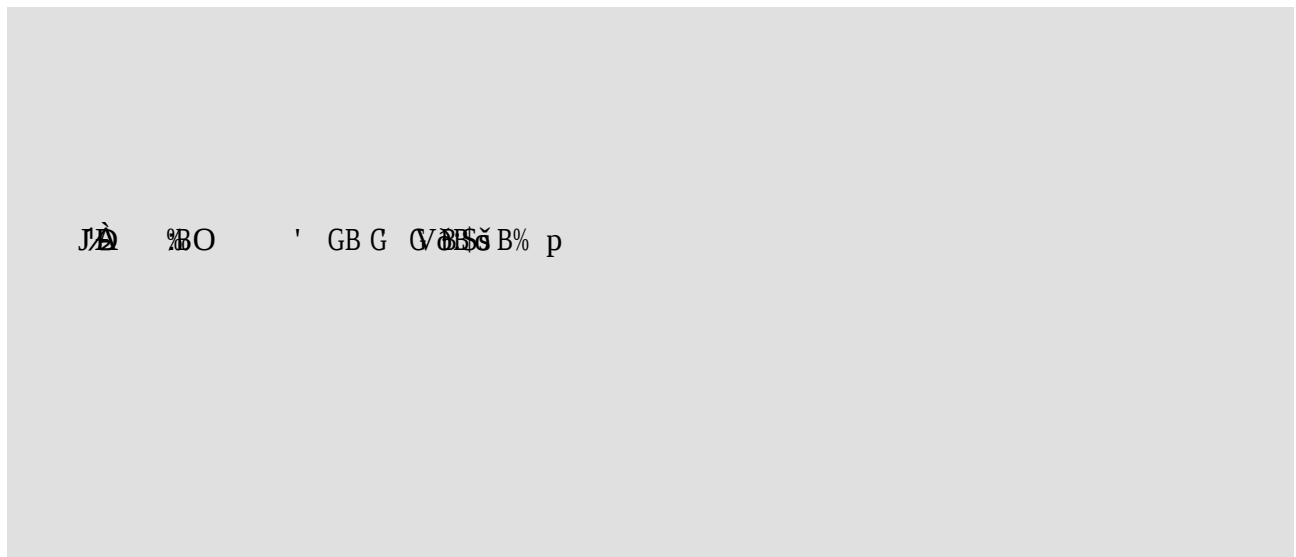


1.	H	11RW
2.	H	11R26
T.	H	XR1\$
4.	H	1\$RT
%.	H	1\$R22
\$.	H	1\$R16
6.	H	1\$R%4
W.	H	11R14
X.	H	11R11
10.	H	1\$RT2
11.	H	20RW
12.	H	@R1\$
1T.	H	2XRT
14.	H	1\$R46
1%.	H	1\$R4W
1\$.		





J \$#\$ ;A< 1( M) " ! (\$ O ( &  
& [H C \ ' 'N 8 H O BH ' '  
G 'E [H C E G E



B&CpZ J%BO ' GB G VBSB% p

& [H C `d Ñ \4 0 #Ñg G€€@ : C ••€@',0 dp j B0

P@Câ\$+T •2\$Z

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%Y 20A0I0//.<  
% &20A,*.A € € B>2.=/40* ,A(;I0*('0)+.0 B>'())=0/(0F  
%Y , /0 A,)K(A0/(0
```



G \$ F G . #F G DF G G \$F G DF GIF GI #3F G .#F G F  
G I# F G.# F G. DF G \$F G . F G ##F G DF G\$3F G #

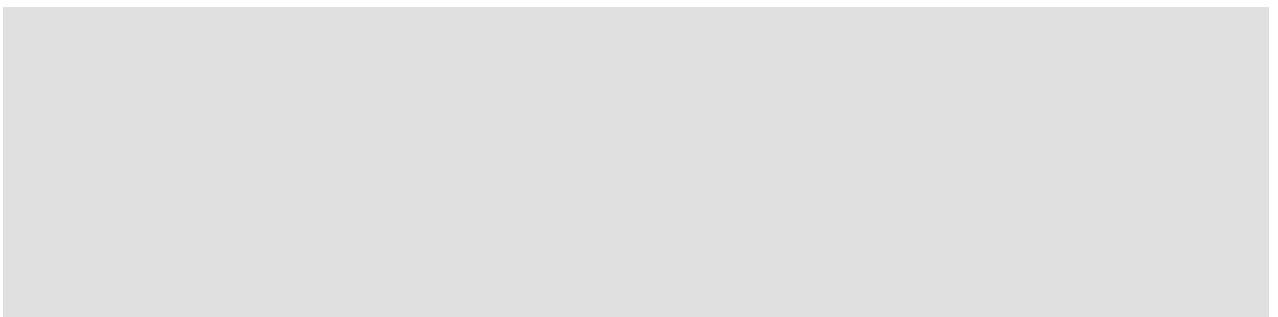
I#\$G .F I#\$ 3\$F I#\$ 3\$ F I#\$#\$ \$F I#\$ \$TF I #/ \$F I #3F  
I GGF I 3 F I 3 MU 'F ' H 1 H ' & " (J,NF I F IC 3

L

. \$F F 3 F # F #.3F # 3F \$F \$ F \$ #  
WU 'F ' H

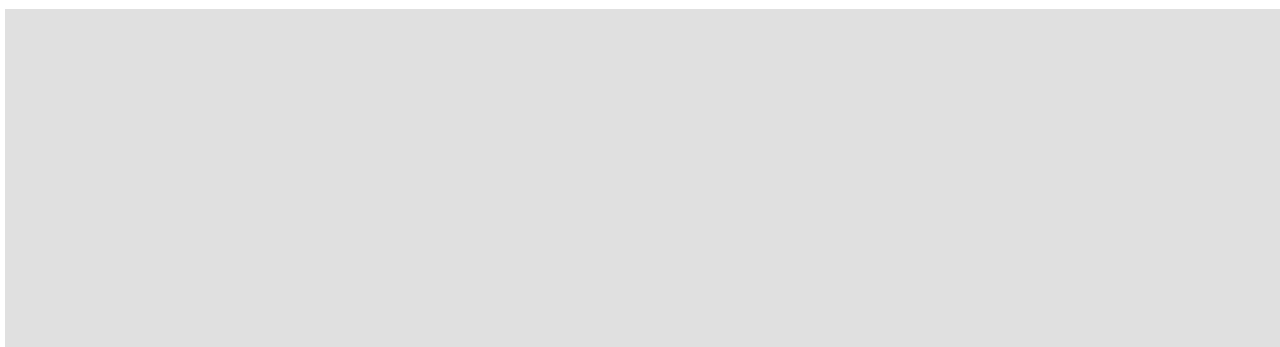
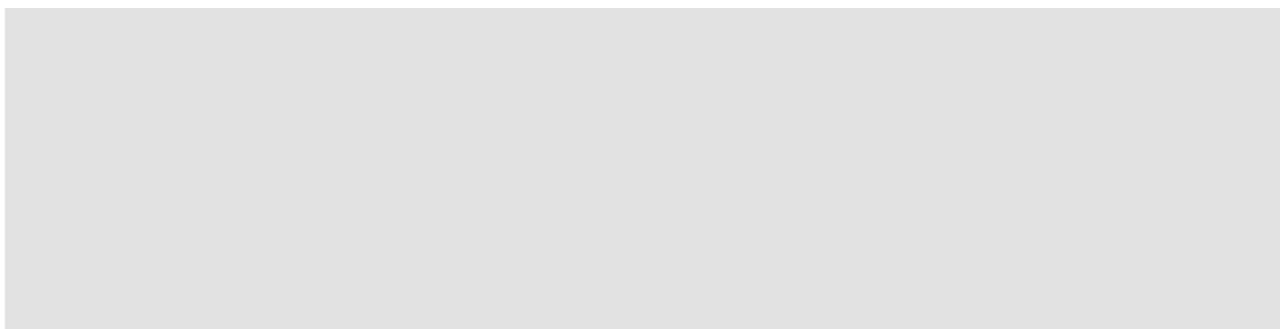
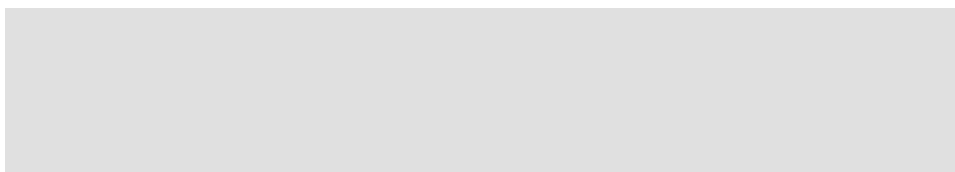
3 \$ ##F 3\$ F 3 F 3B M

7 \* (8\$





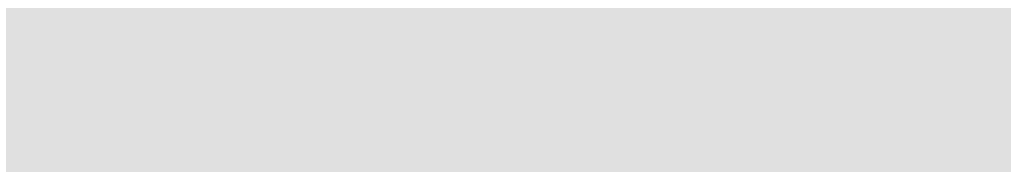
8 C I J ' H !





% †F 60<)\*B(\*0=C/.F /0.JS.6(I 2A0;(+) 20A0I0//.< €&€k

8^\*, )\*A.+, A,1J(\*,  
/, 6B0 )\*A.+( 8  
% j0\*F €&€ /0 \*A0J30\*)4



U C G 3 \$G

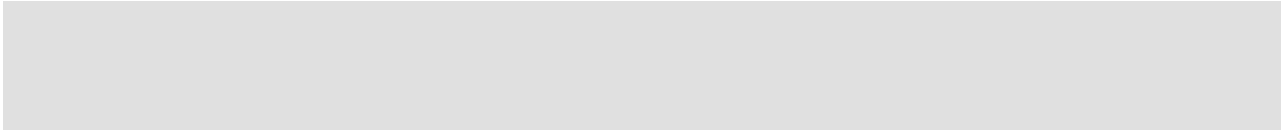
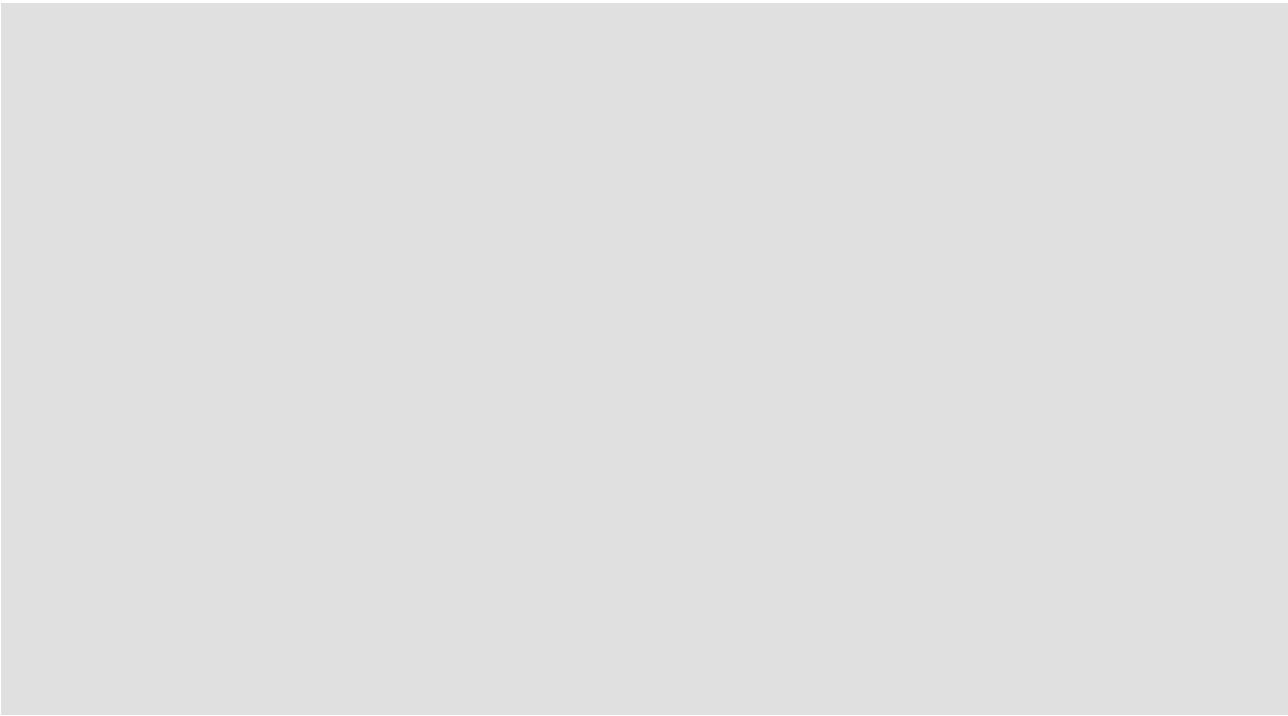


# MN  
Q 3 \$G 8 8 |G  
% •.AI,\*(A.B,/(0 20A06,B,0I>S 2.1(D(.//>S 2,A,I0\*A.BF ( 20A06,', (S  
V f ErQQ "  
R  
zz 8j0 20A0K=( B ™ 8 8 8  
% ~2,)(J. [

UH. J H T\$R16.

#

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feaf" 8

#      !      %      888 2.6,B=40* 20A0B.6 )*A.+( 2A( ' *0/((      !
      %      20AB,4 ) *A.+, „
      %      B*.A,4 ) *A.+,

#      8      ! L      !8
%      ! L 20AB,4 ) *A.+,      B*.A,4 ) *A.+,

%  H +,M6.< ) *A.+0F 1,+,/'(B,`?0<)4 8,,8F B> 2.=3',0*0 2A(:=,K0/(0
%Y + BB.63 )=063`?0< ) *A.+(F 6=4 2A.6.=M0/(4 BB.6, )(IB.=.B B      !

S

8HB06(*0 6A3:3` ) *A.+3 1,+,/'(B,`?3`)4 88 F 1,*0I /,MI(*0 feaf" 8
# /      G % &2D(4 / 1,)*,B=40* '(*,*C J3+B,=C/. 888
      %      20AB,4 ) *A.+, „

8      G L      G8
%      G L 20AB,4 ) *A.+, „

% o,2()C 6,//>S 2A0+A,?,0*)4 ) 20AB>I /,M,* (0I feaf"

V      c
```

V H # H G I F 'N  
D \ I J C J ' J ' WXYZ.

```
% h*0/(0 /,M,*>S +=,B(K J01 /,M,* (4 feaf"

# / / ) /3 8j,MI(*0 +=,B(K3 8 • ^
s      8•>=, /,M,*, +=,B(K, 8,,8 • ^      „88 8

% &2D(4 / .2D(4 .1/,',0* /0 B>B.6(*C BB.6 /, p+A,/
% &2D(4 / * .1/,',0* 2A/(I,*C *.=C+. e BB.6(I>S )(IB.=.B
% &2D(4 /3 .1/,',0*F B>B.6 /, p+A,/ 2A(:=,K0/(4 20A06 ' *0/(0I BB.6,

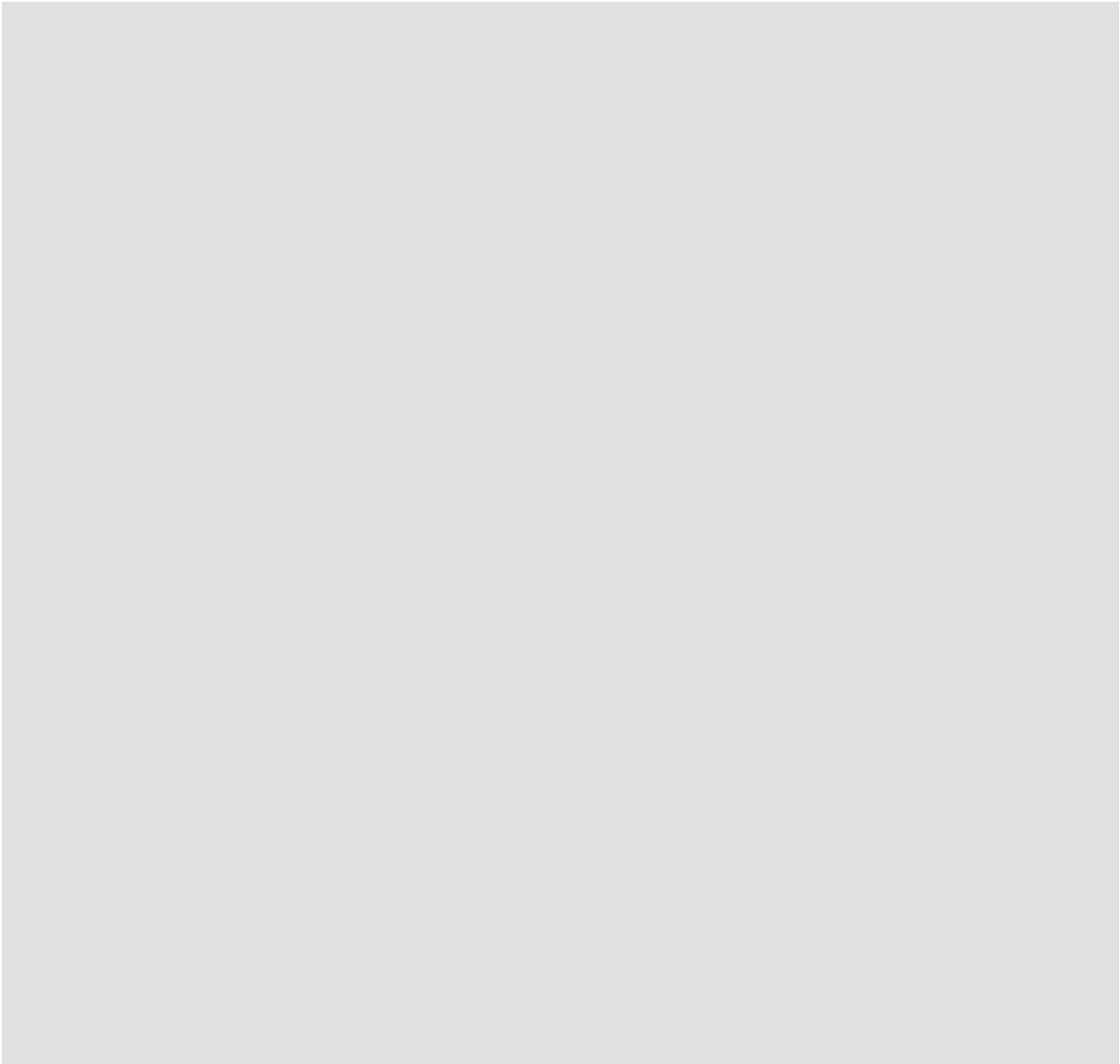
% @.=C1.B,*C)4 p*(I( 2,A,I0*A,I( )=.M/.F 2.)+. =C+3 ./ ( 6.=M/> (6*( B
%Y .2A060=0//.I 2.A46+0
```

V H D I G ' 5 # F ' b7R•0 ! \$#0 "(0 !\$)0  
E \$@ E b€C E (P\.

5(0)0(0 \$( mîÄ €Abx\$ .18\$ :qO €€ !







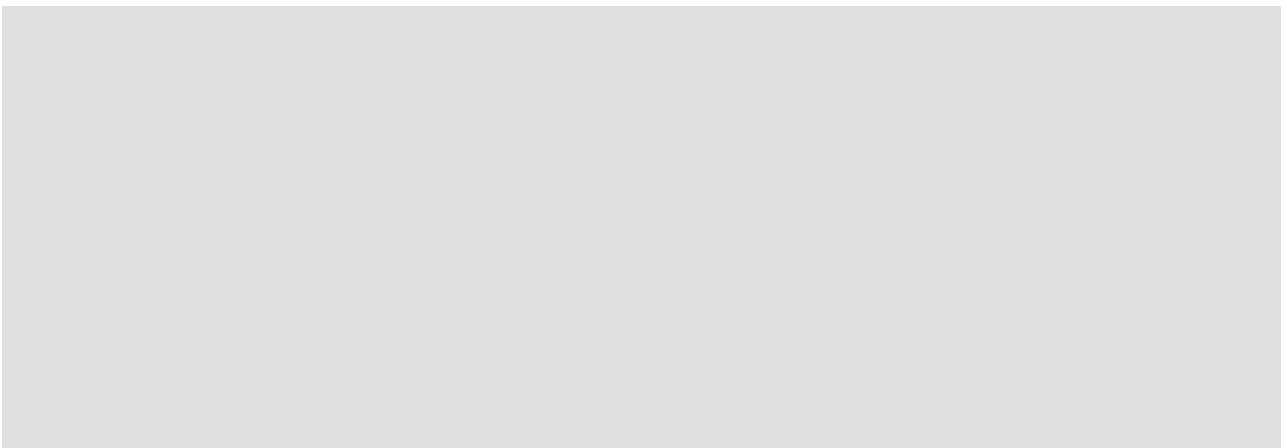








HI C J I 8B



- 8H0AS/41, H>2@)bCbäI, q0A(BB,,Q 0,0r[" 5p\*. Q " ar[" 8  
3 3  
8d020AC .JA, \*/. B 6(A0+\*.A(( -@,Đ -

Aiiiiiiiiiiiiiiiiib v•“ákY25&%B =2N‡,,0â25&%B A8 n Ž+! 25&%B •4p,,0âw25&%B % Š 8uá•.8nCbă`

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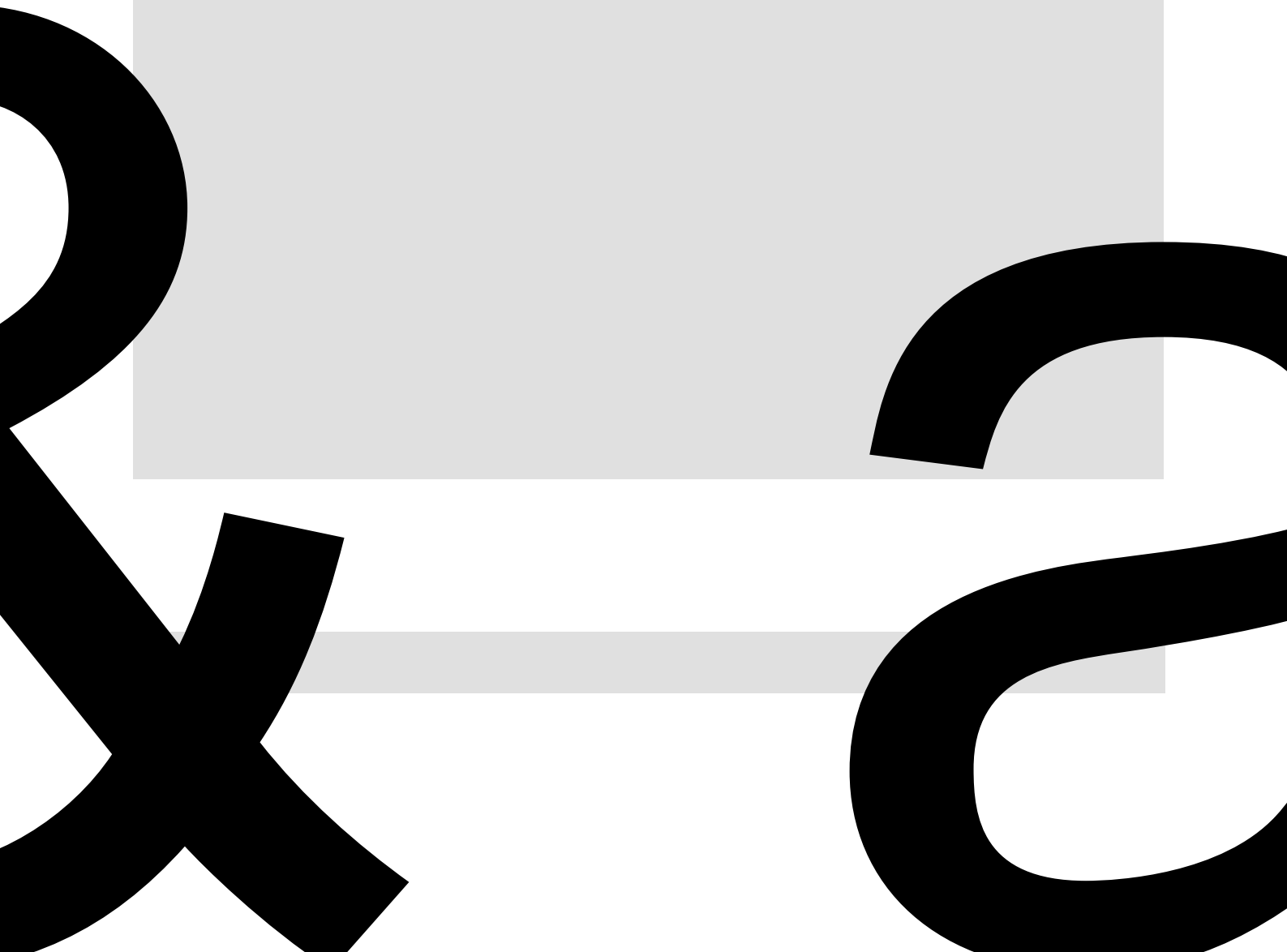


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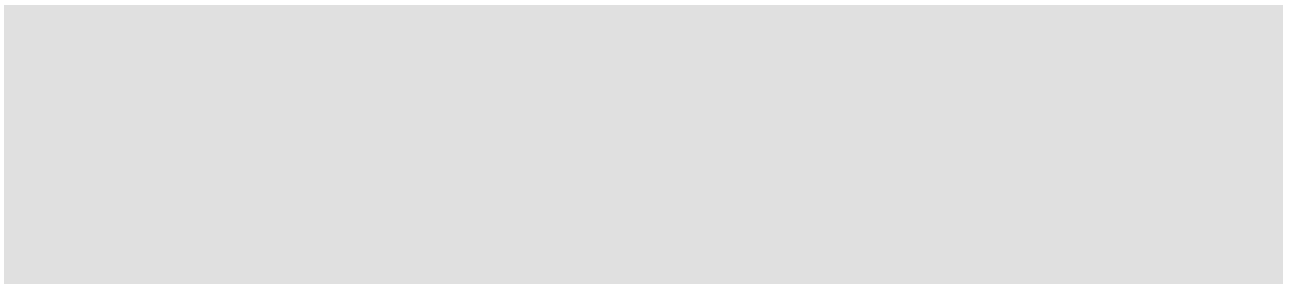
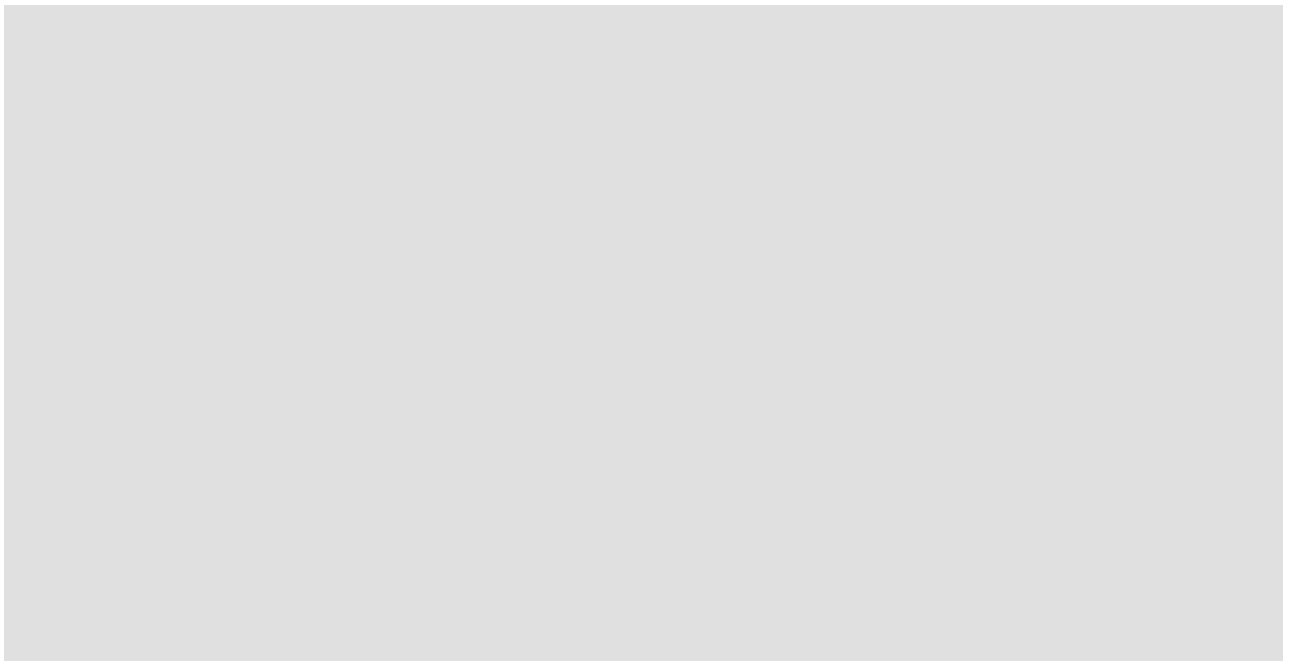
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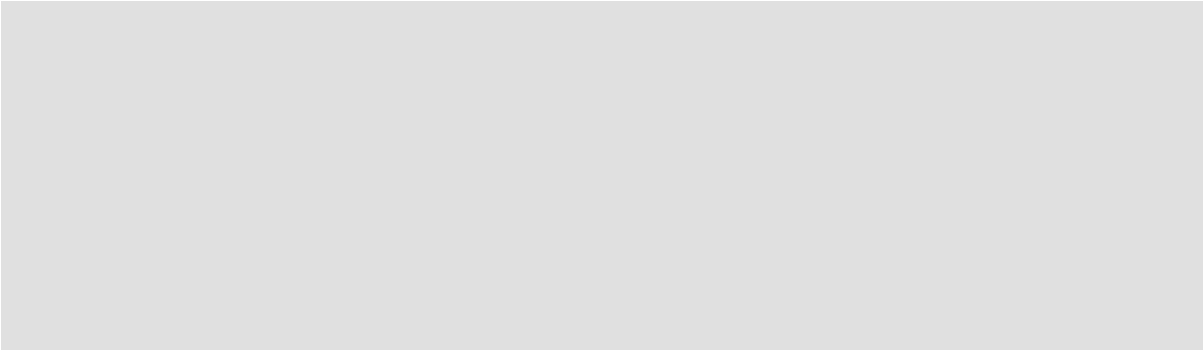
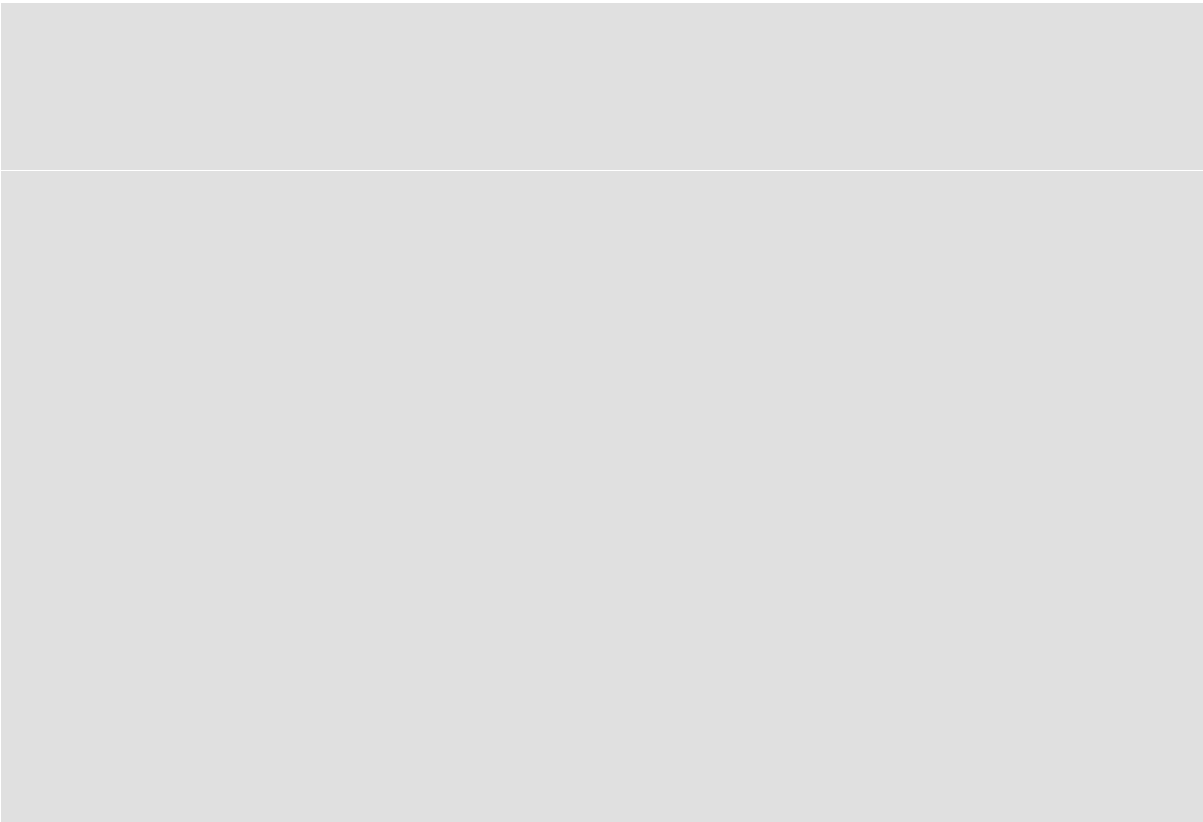






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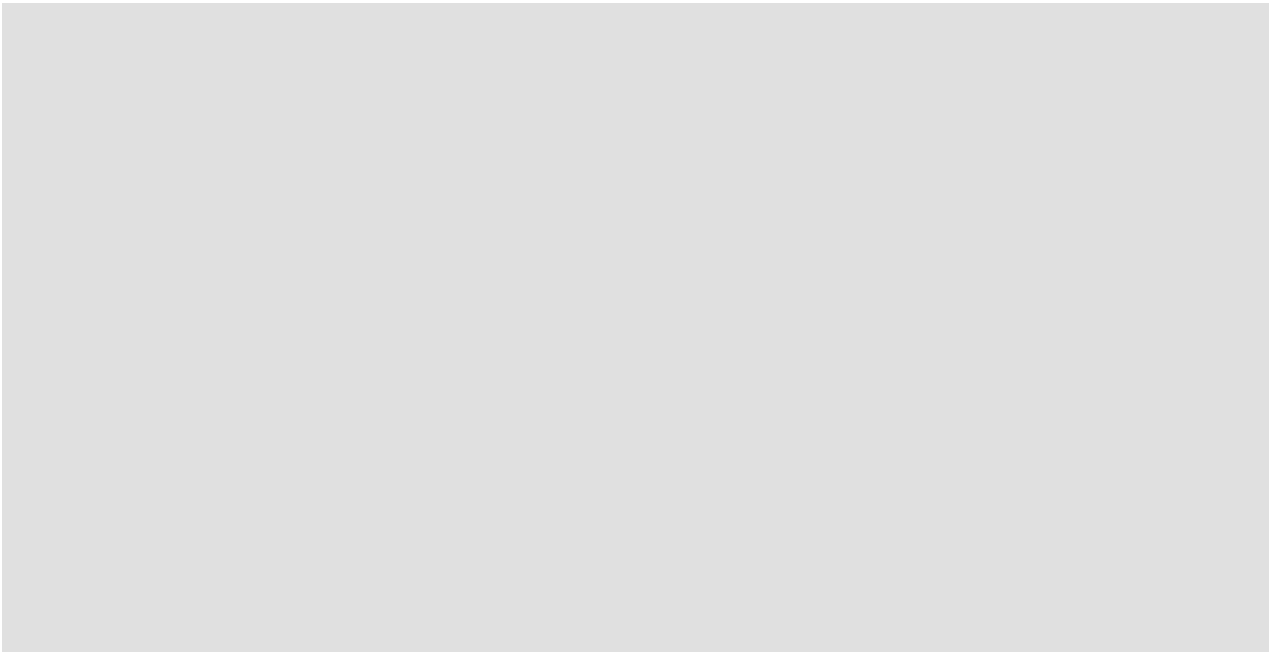








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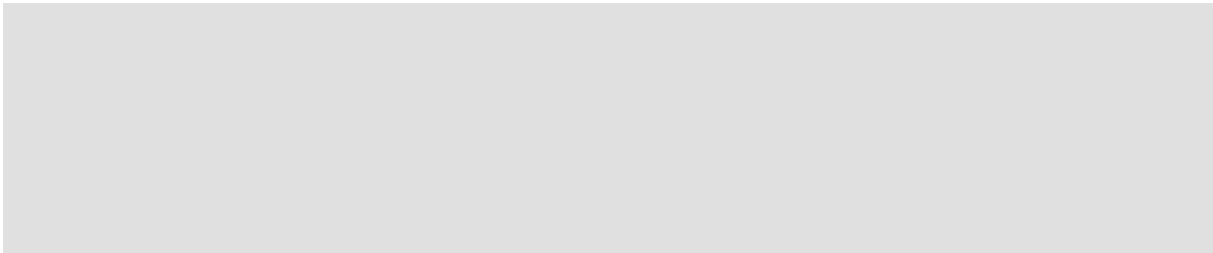
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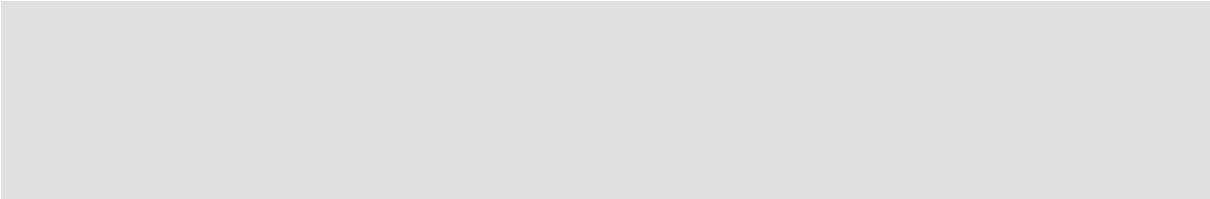
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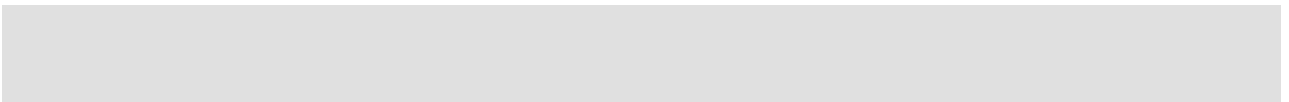
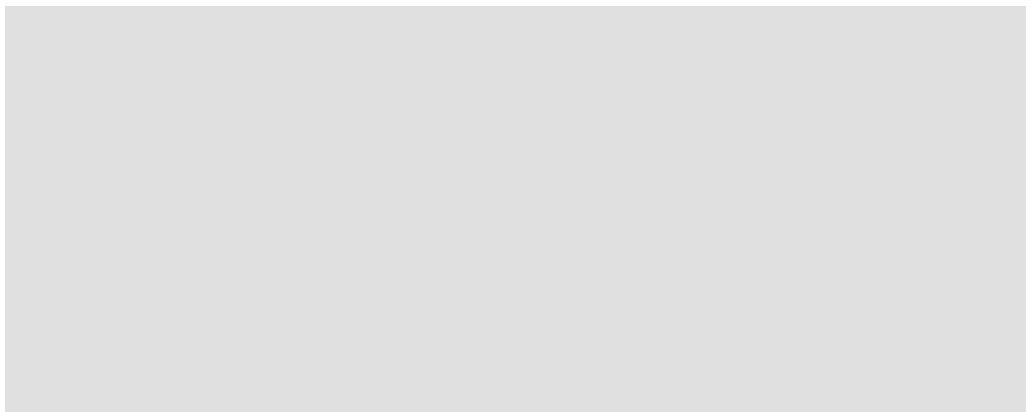
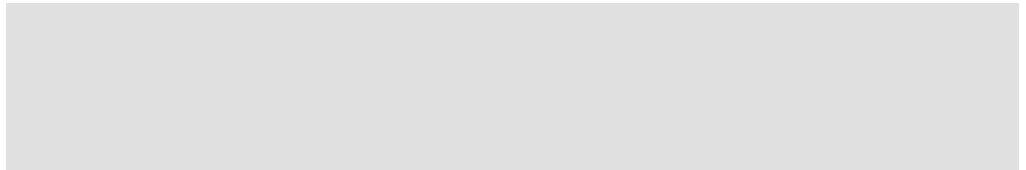




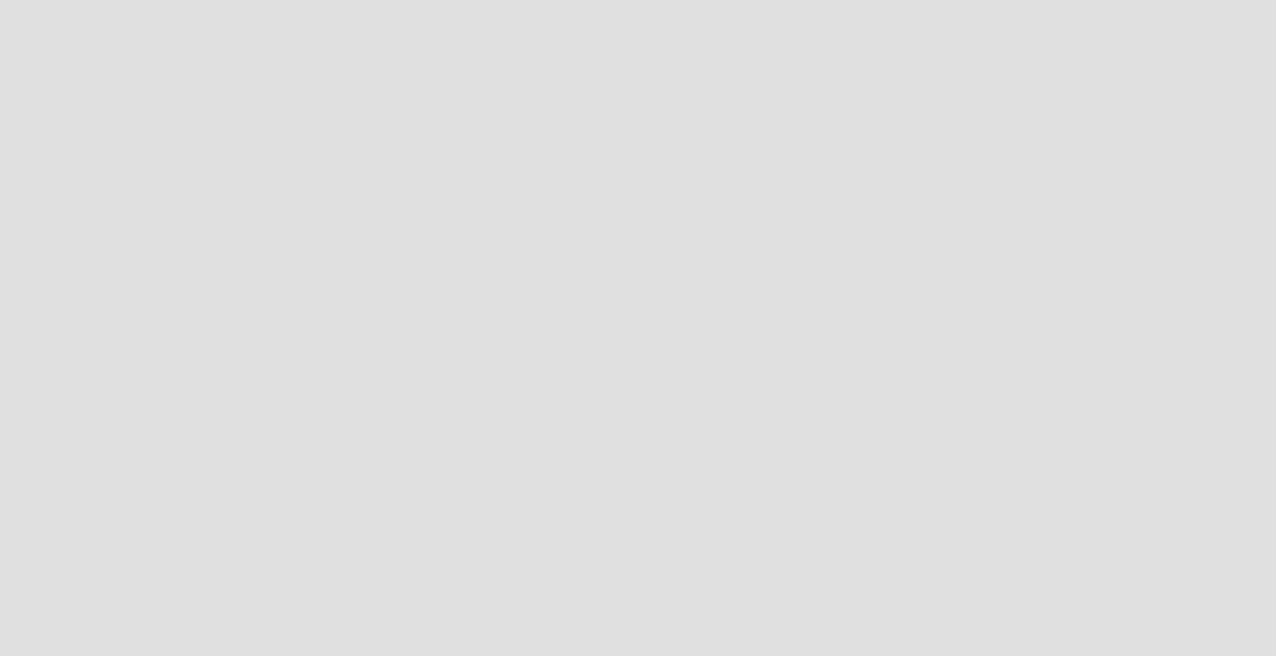
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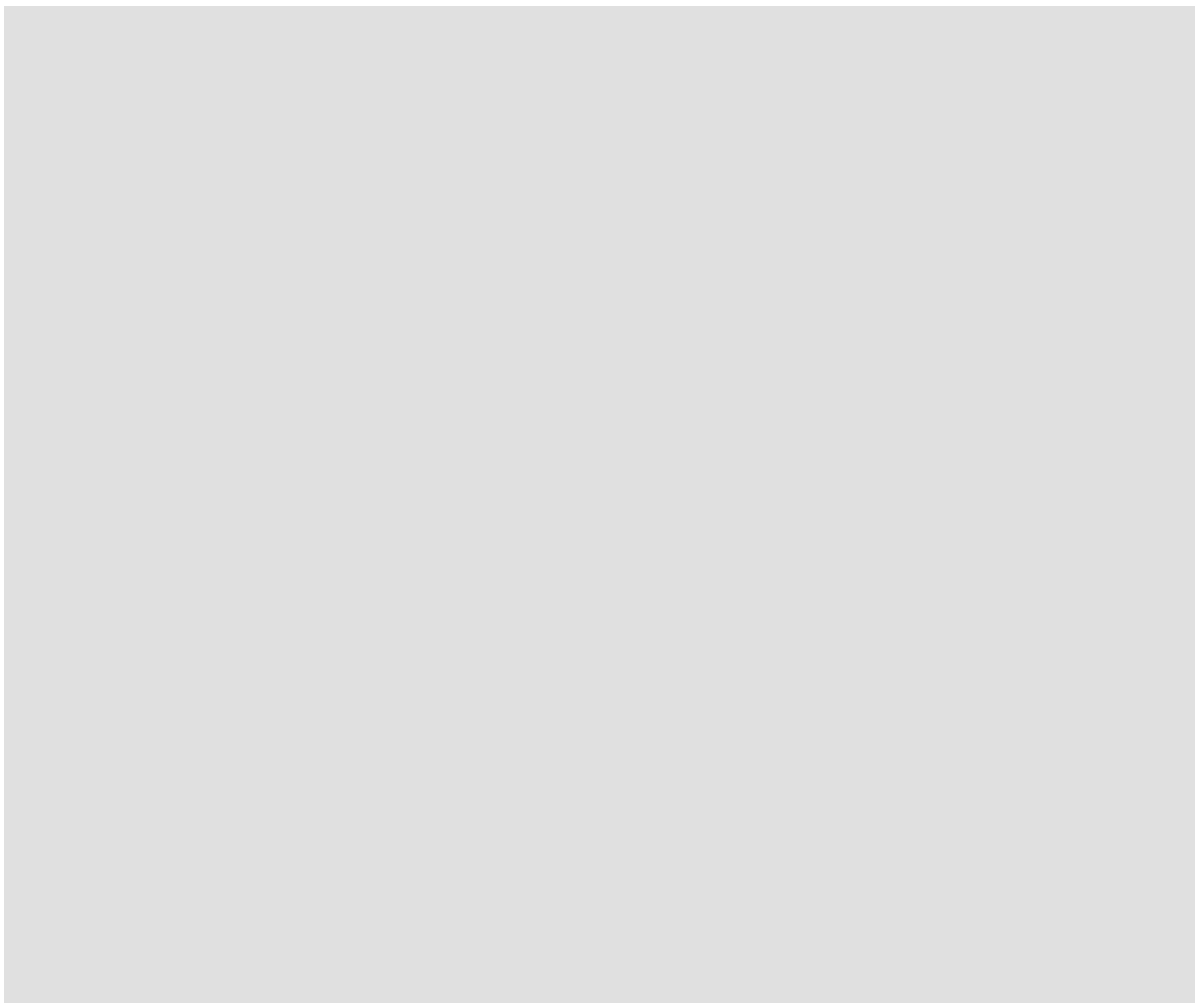
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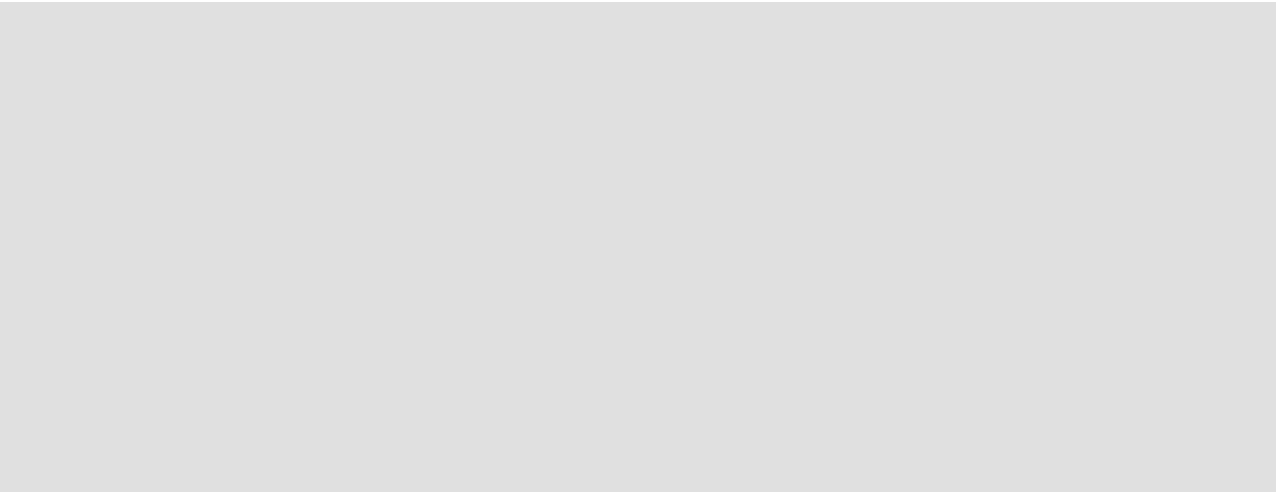
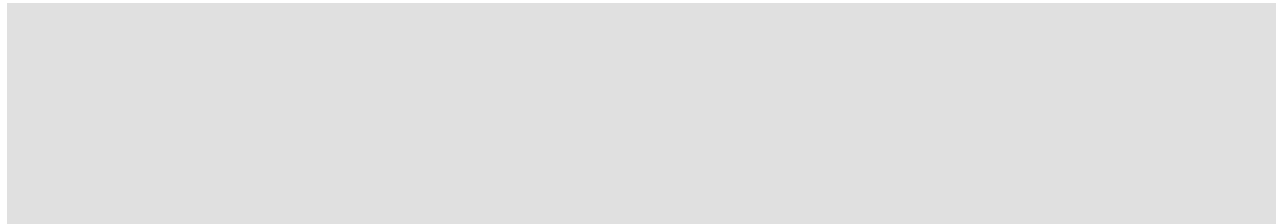
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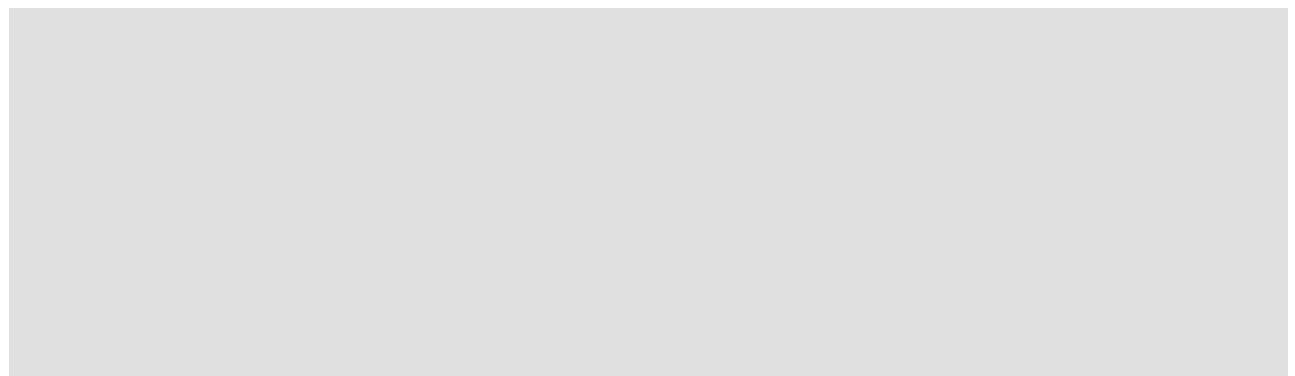
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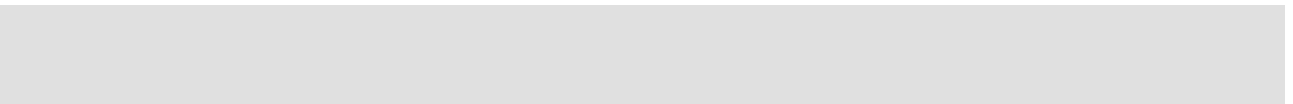
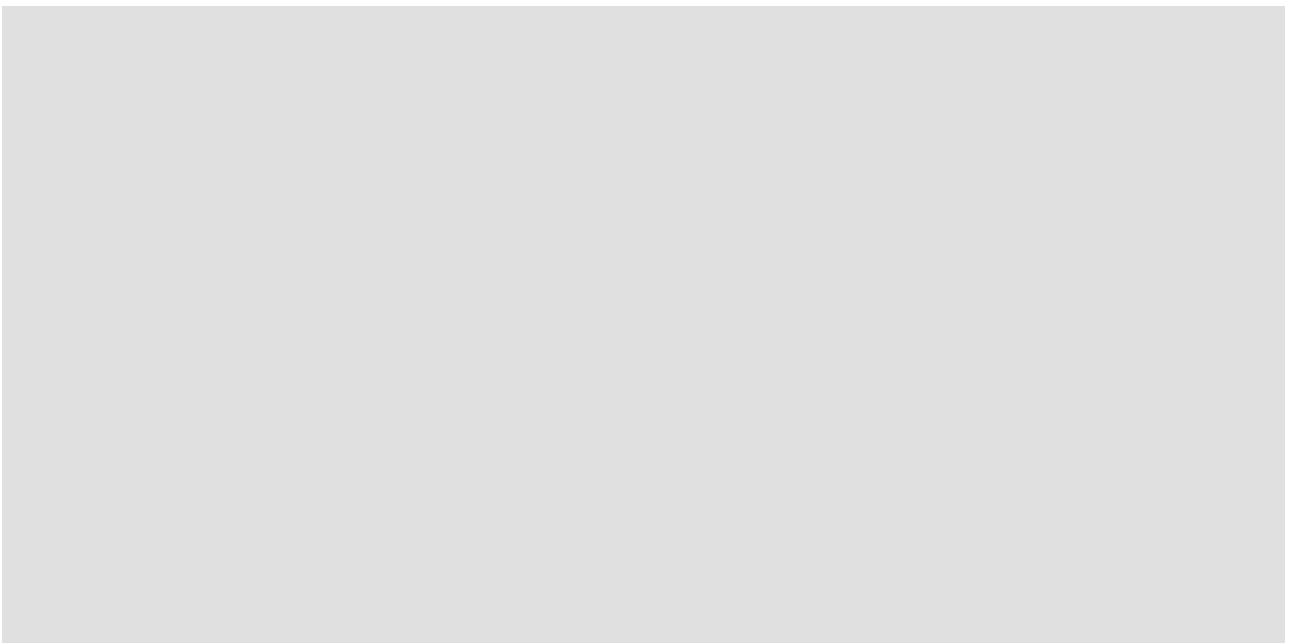
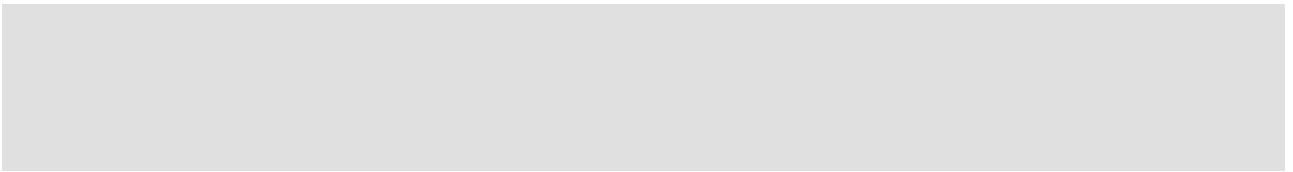
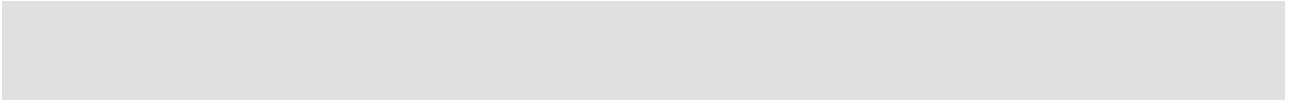
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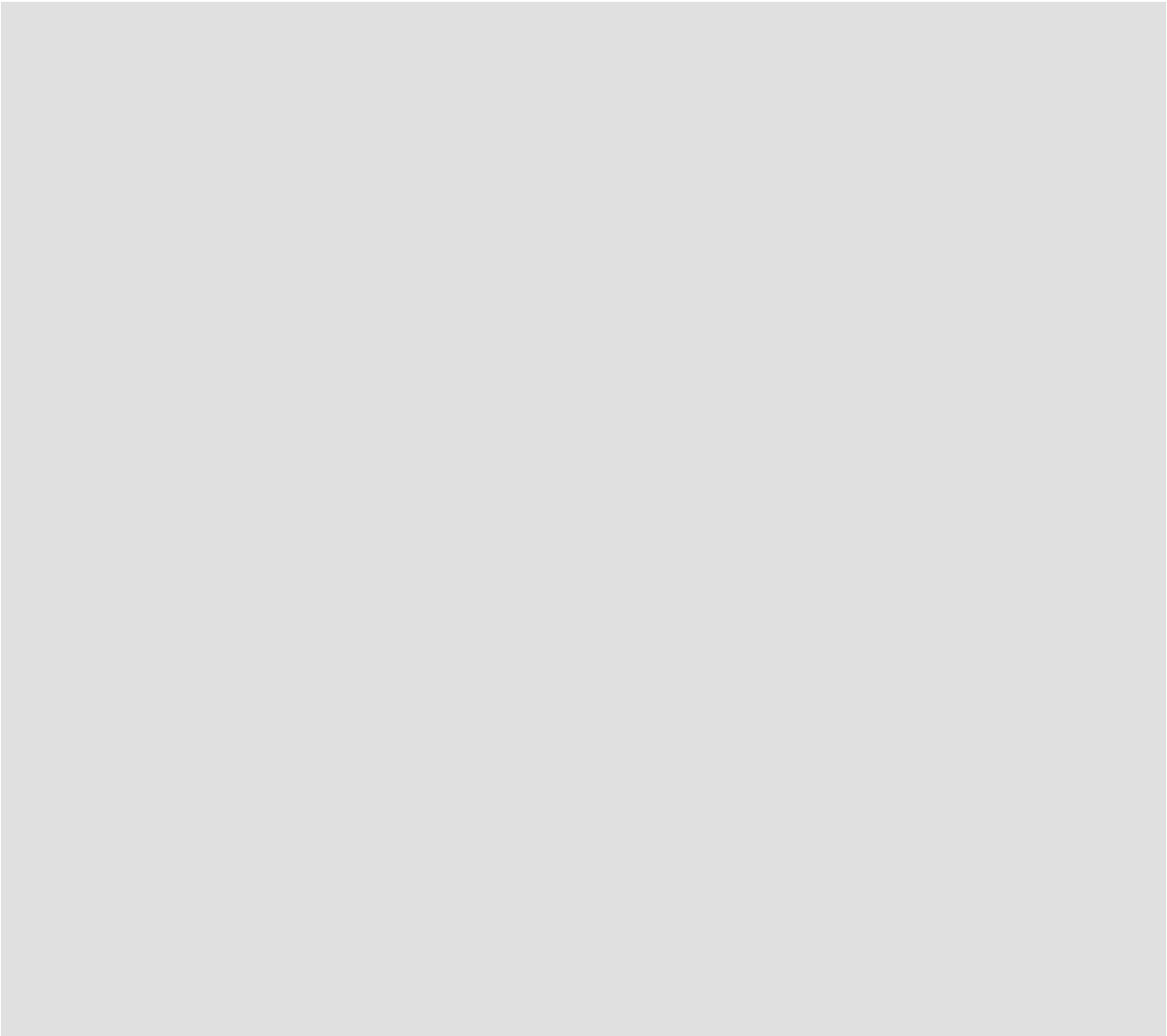
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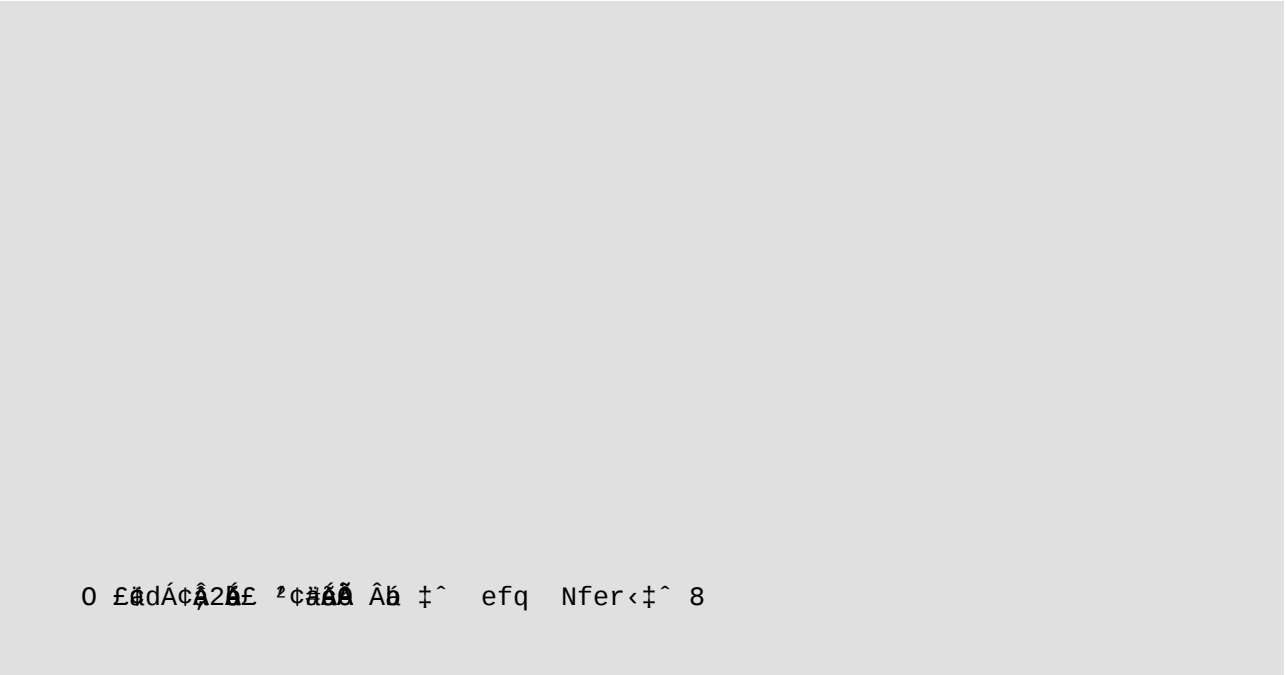
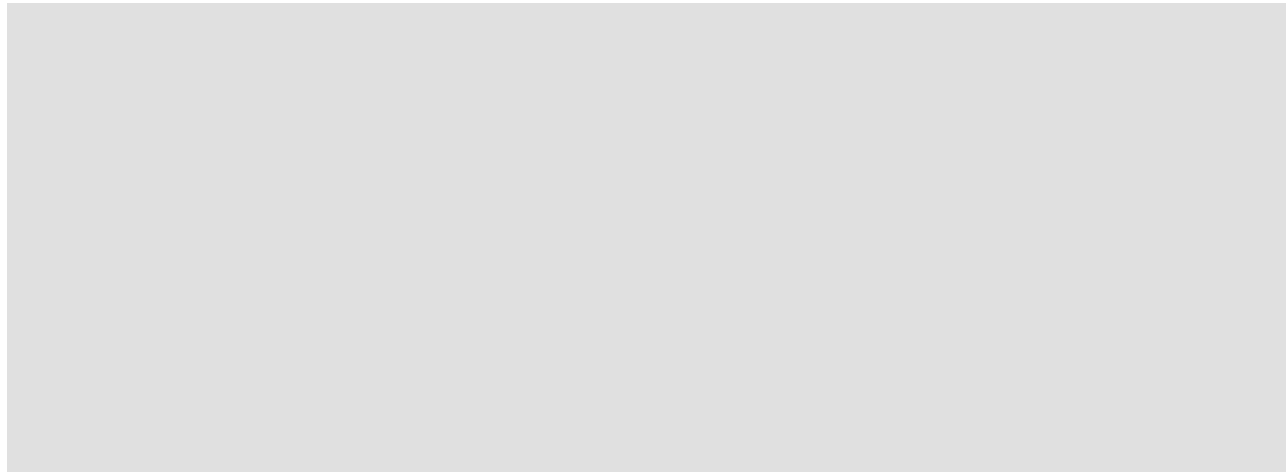


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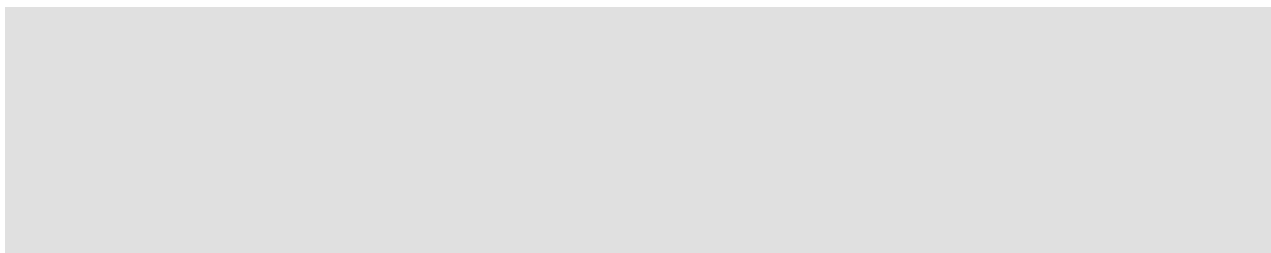
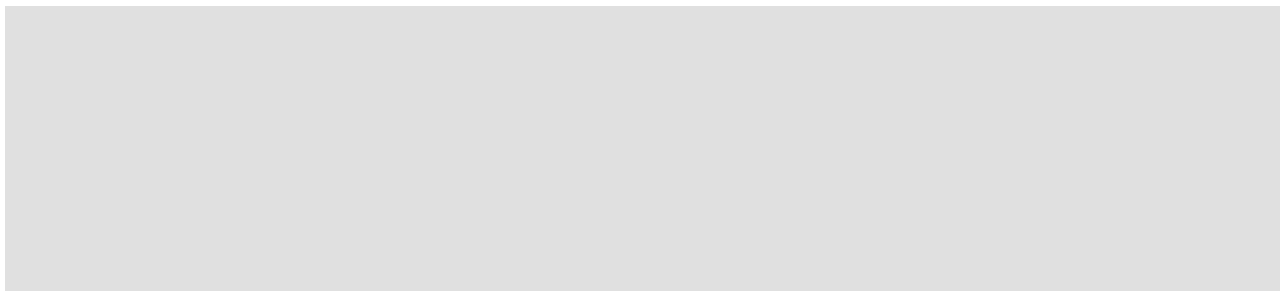






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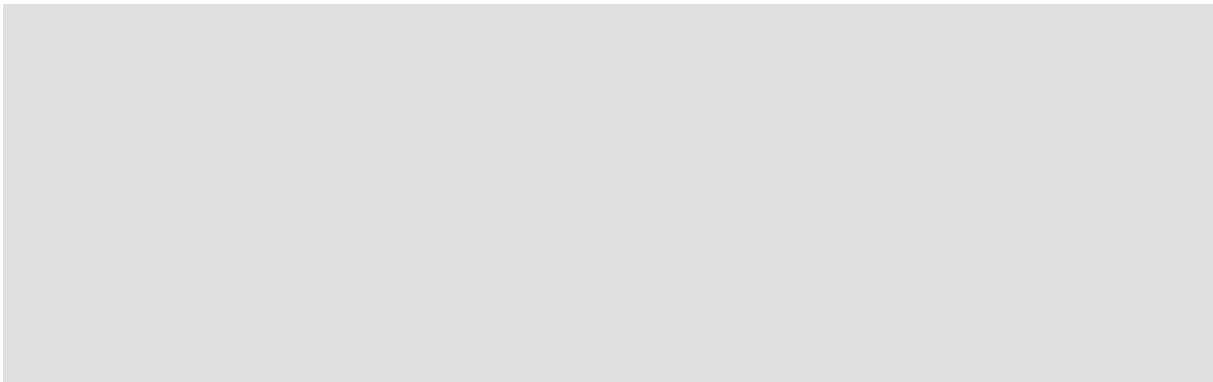
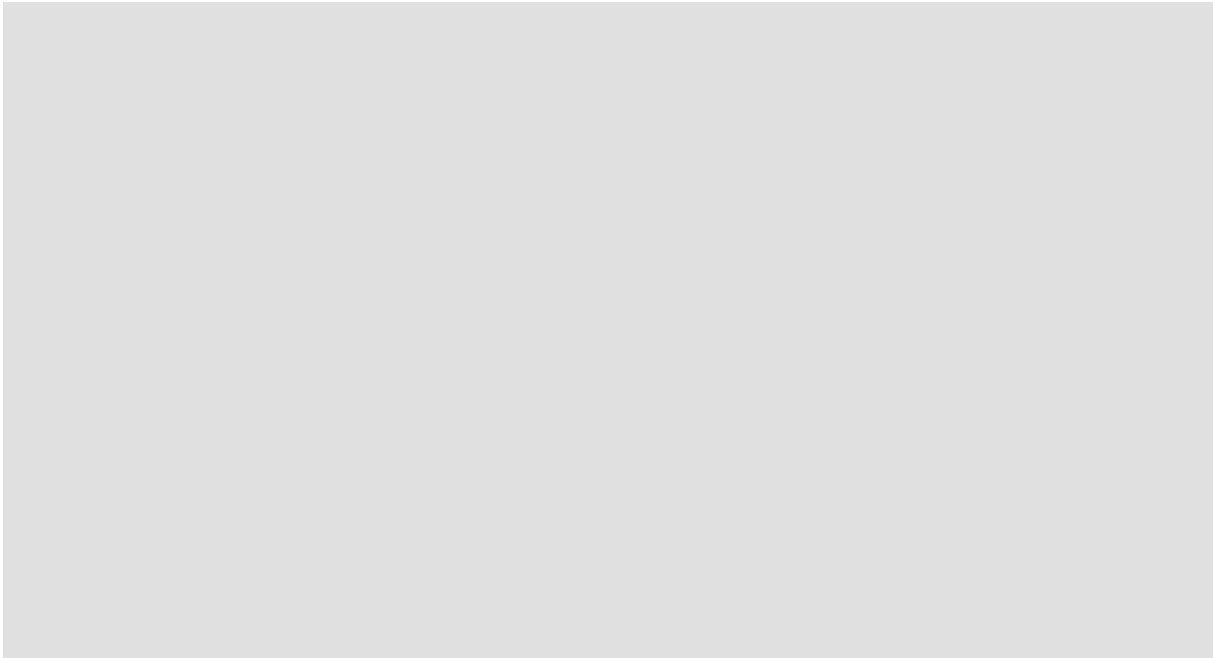












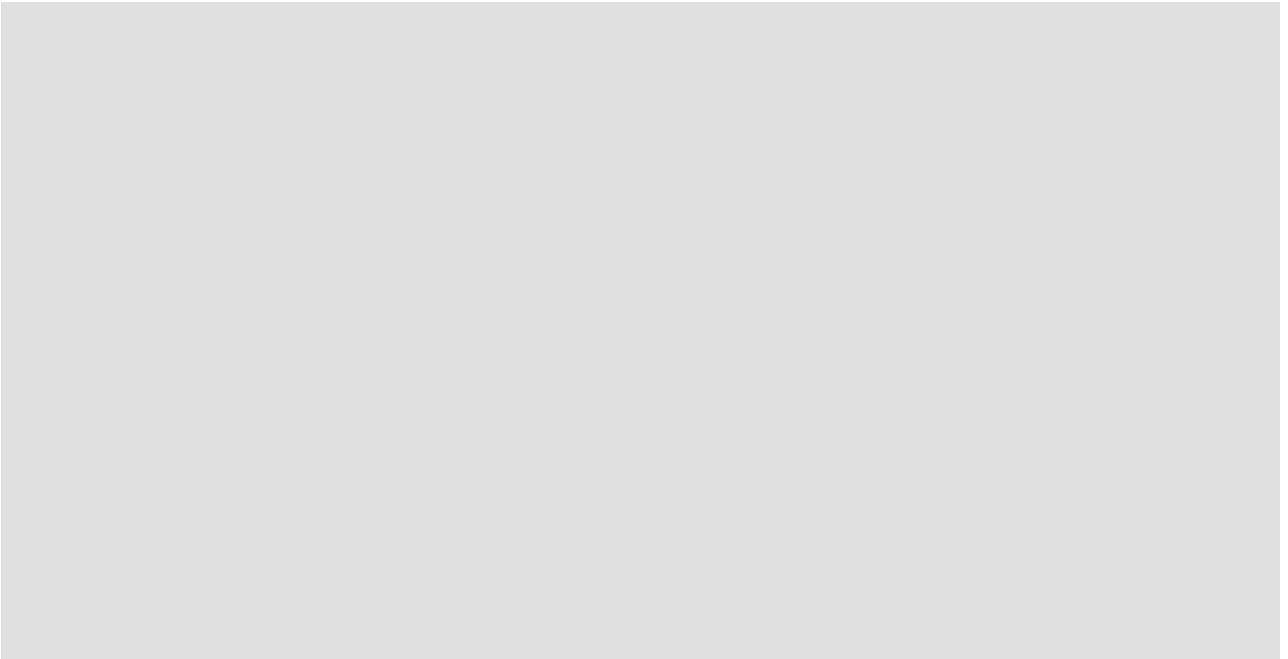
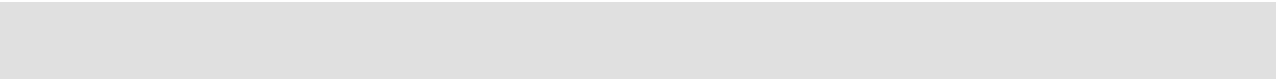
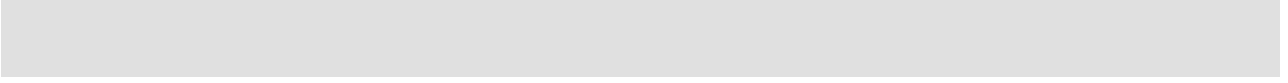




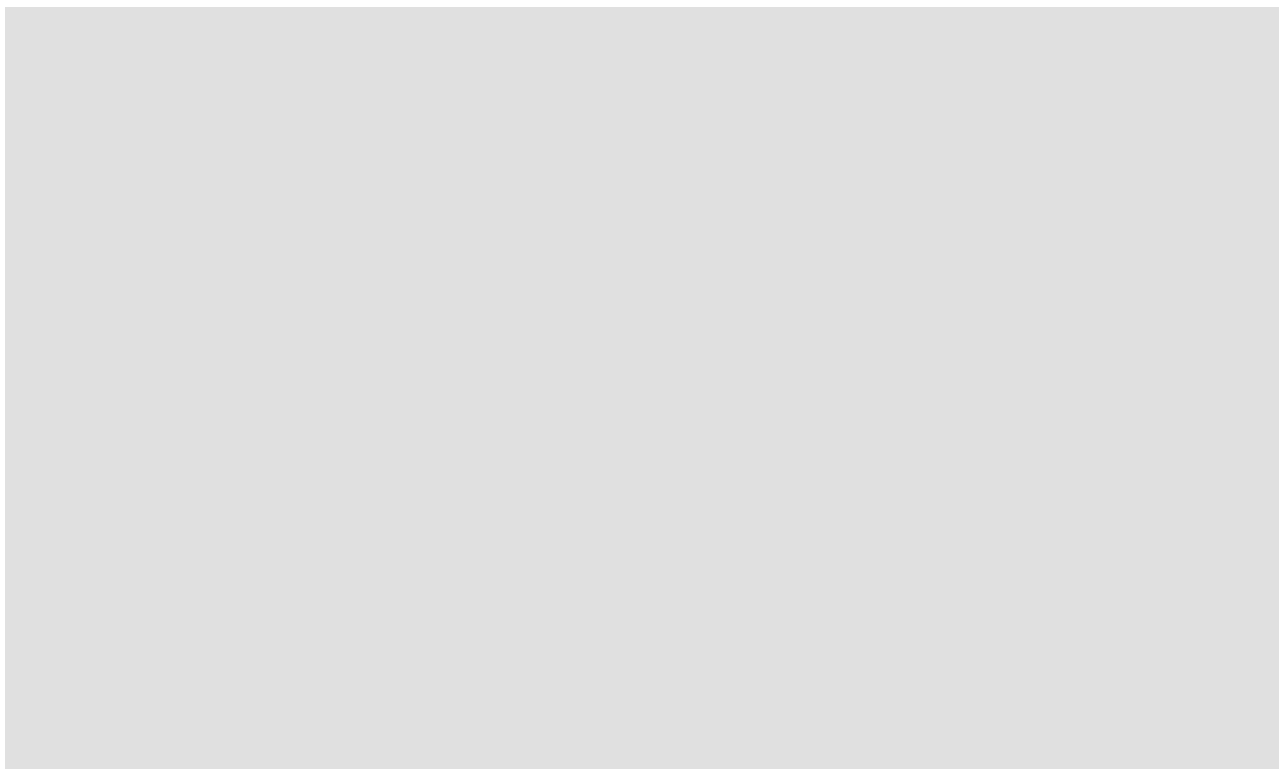
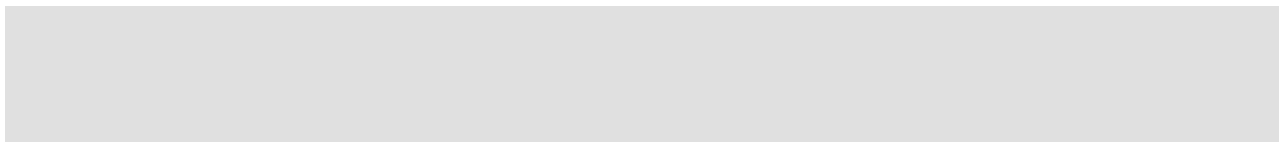


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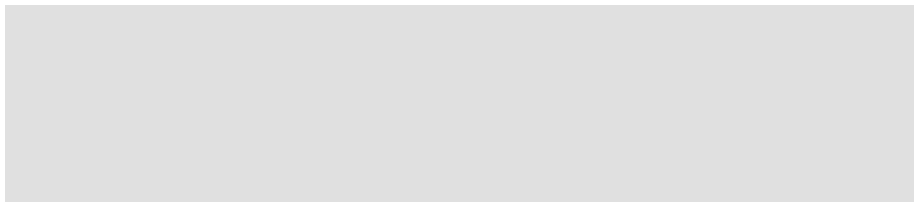
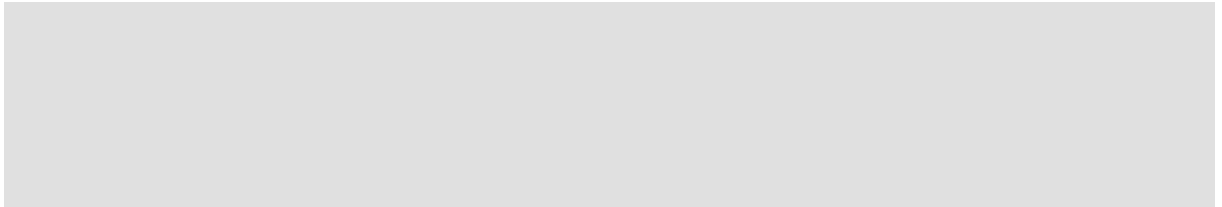
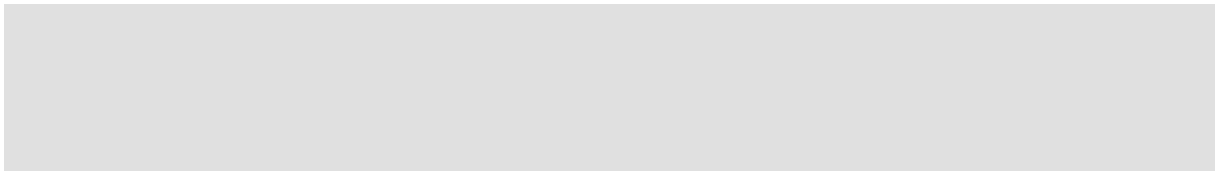
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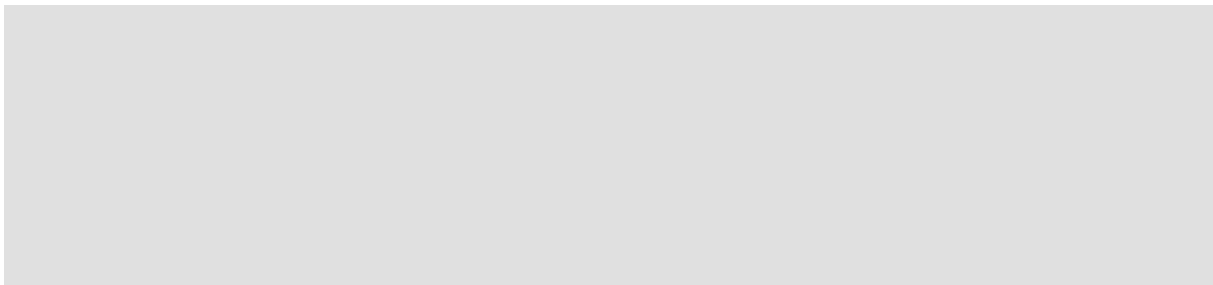
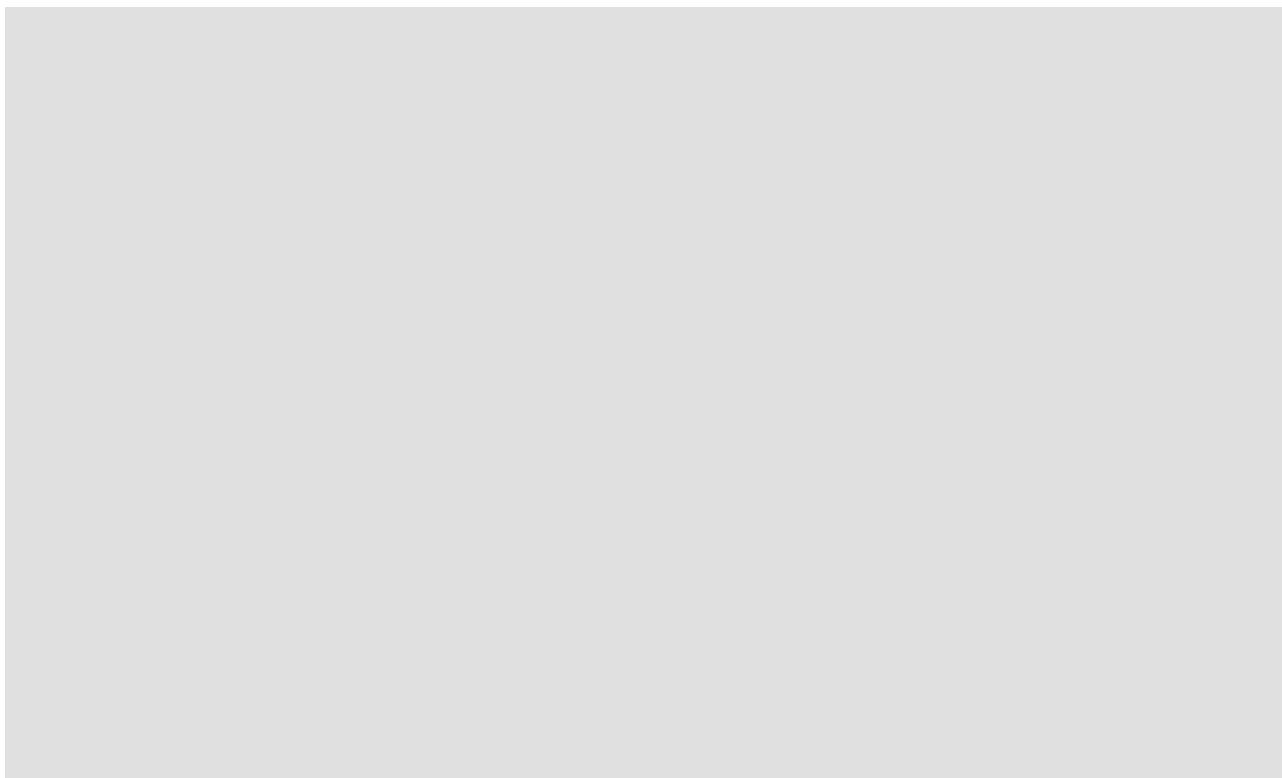
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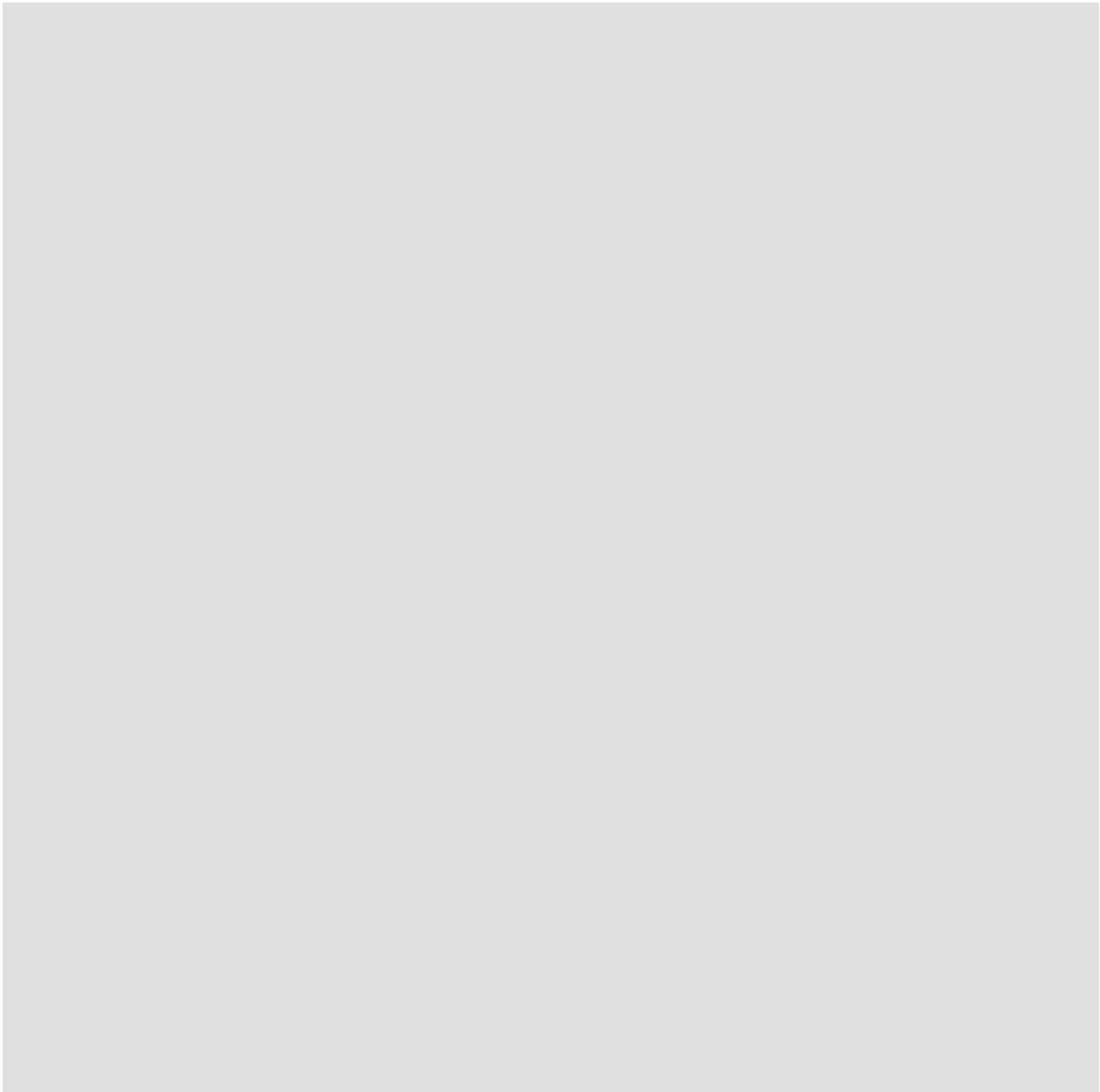
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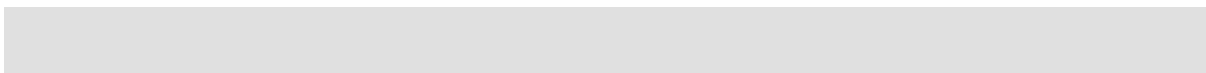
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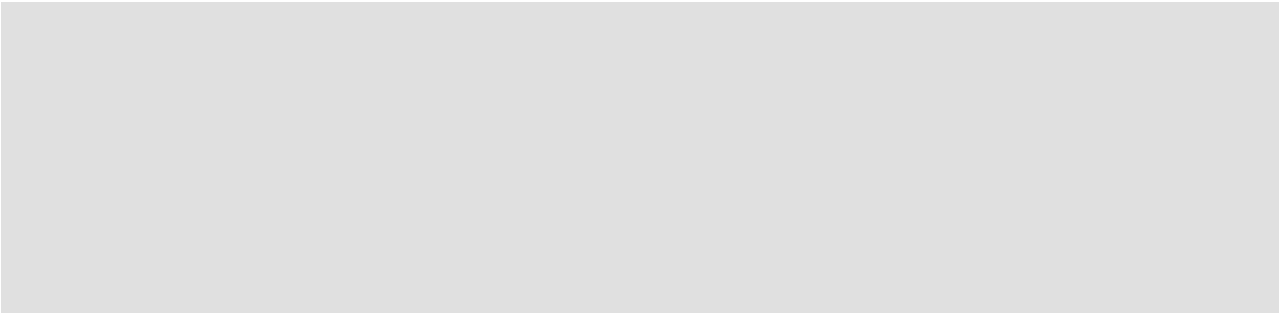
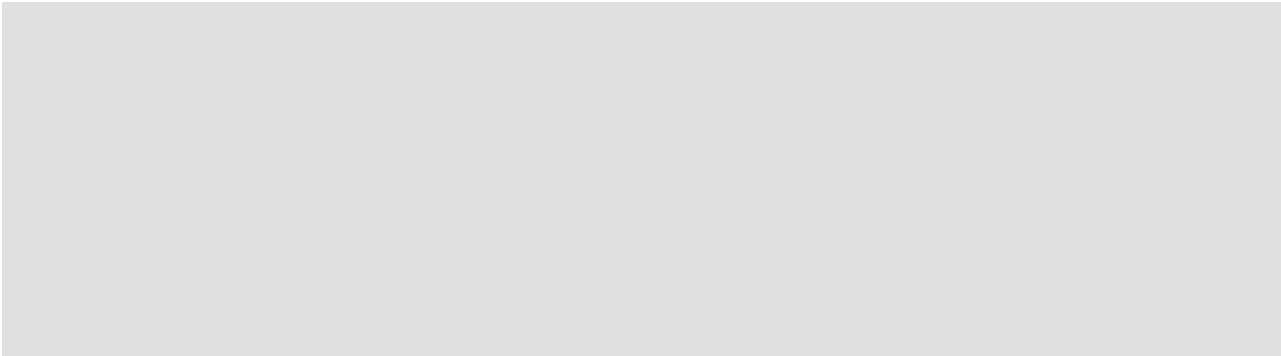
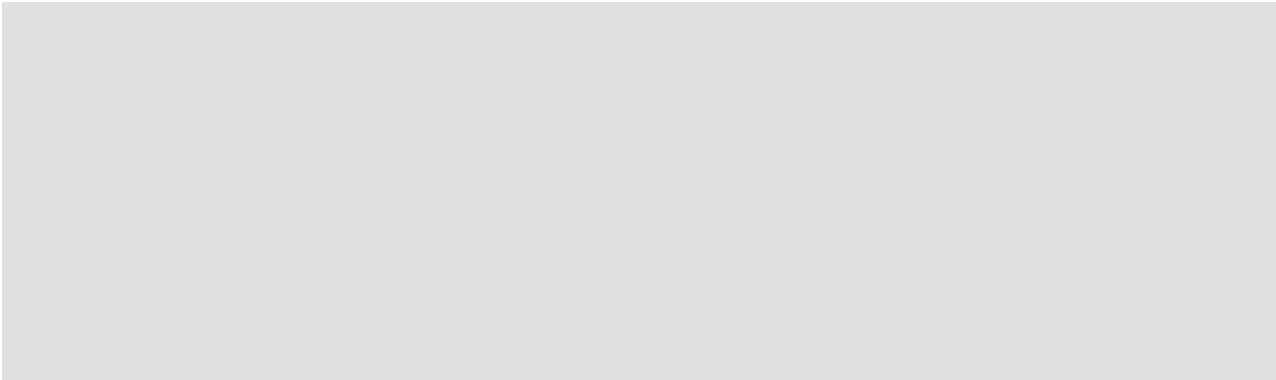






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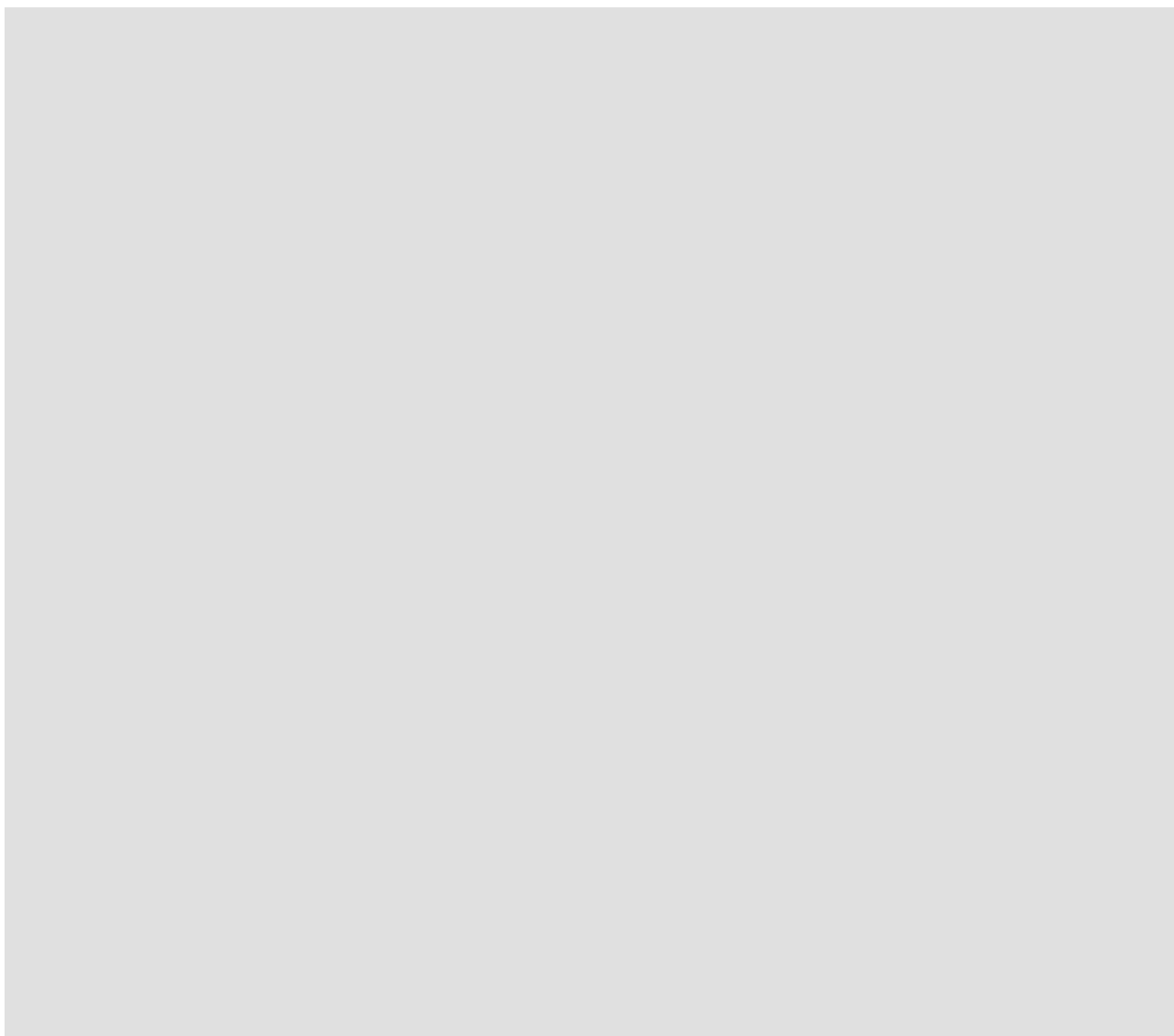
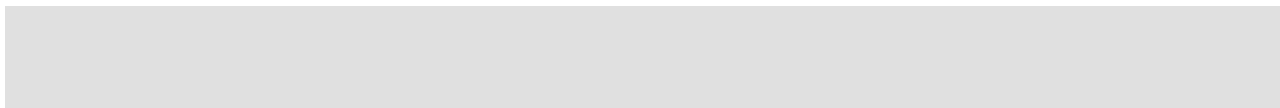
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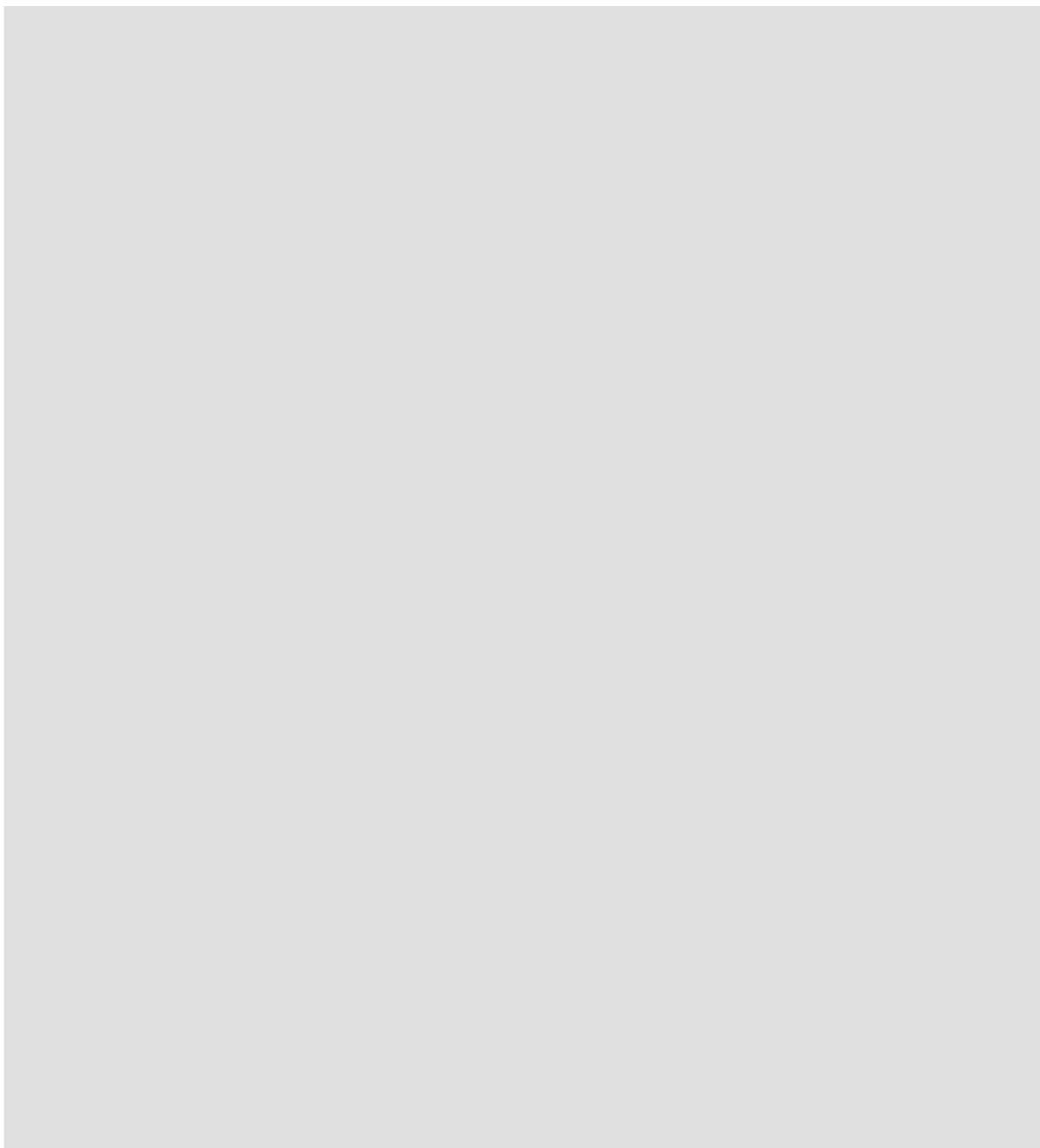
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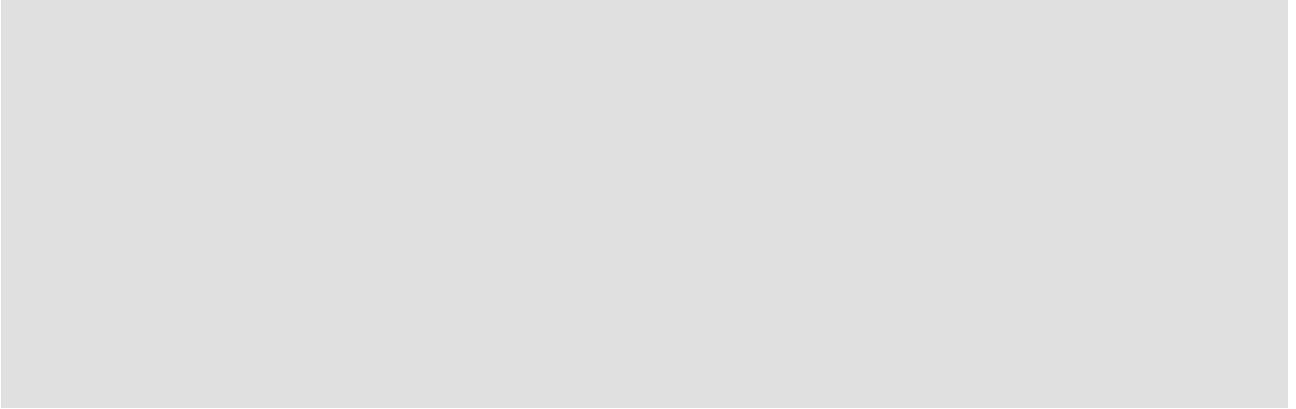
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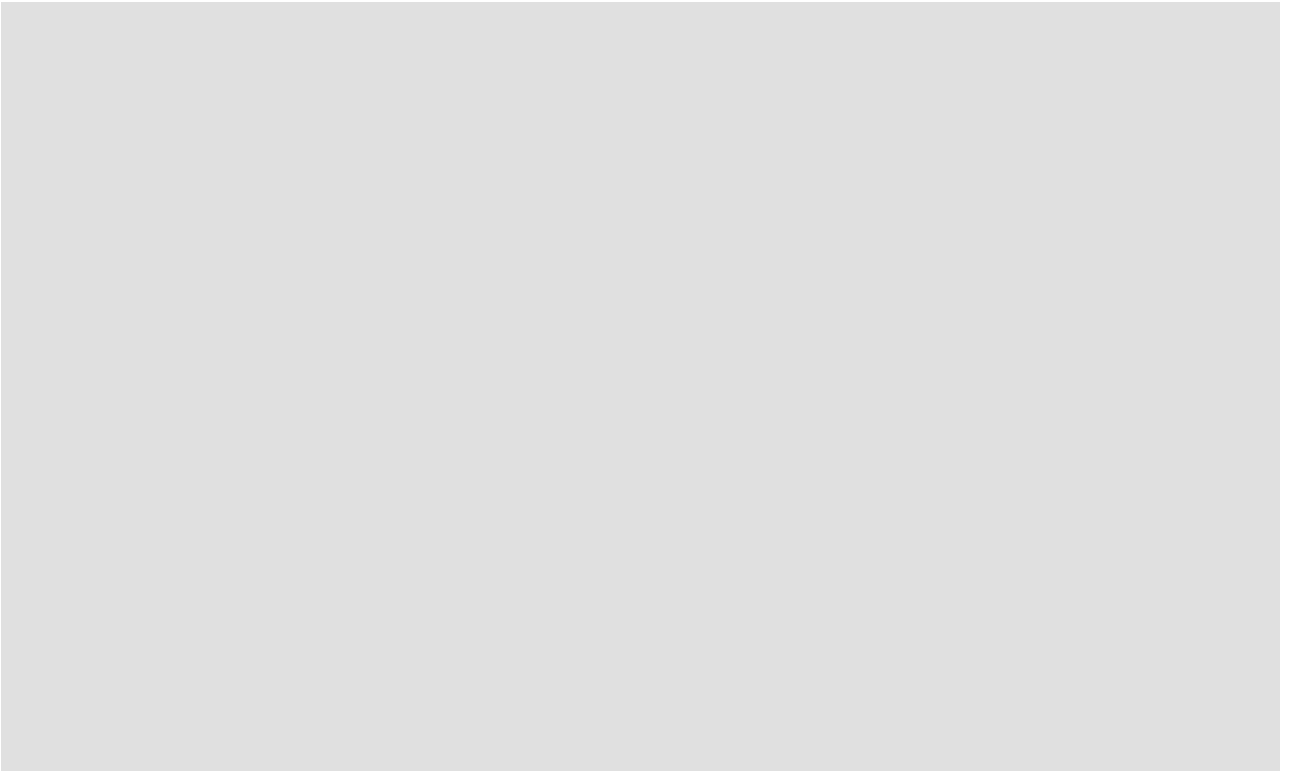
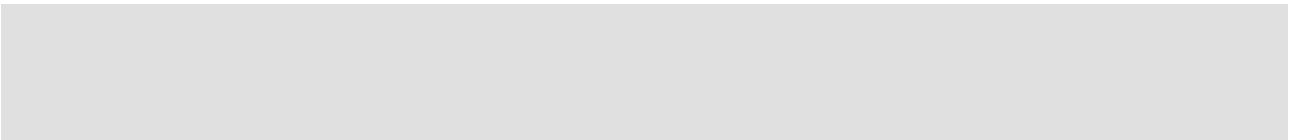
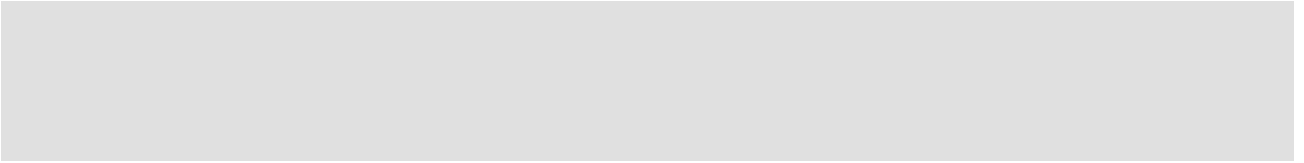
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%         6666666666666666 y0=(*)4 / , !cc
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[illegible]

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[illegible]



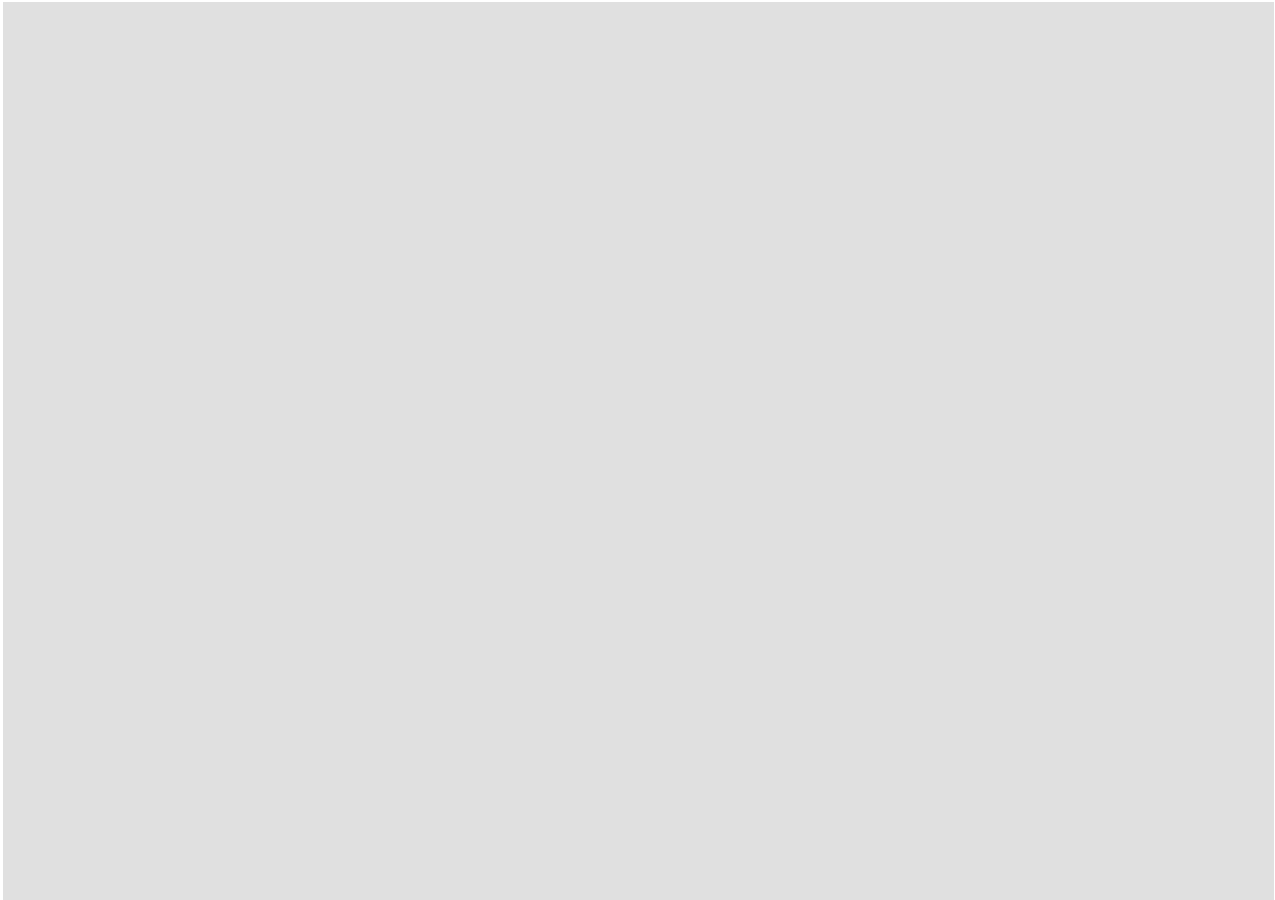
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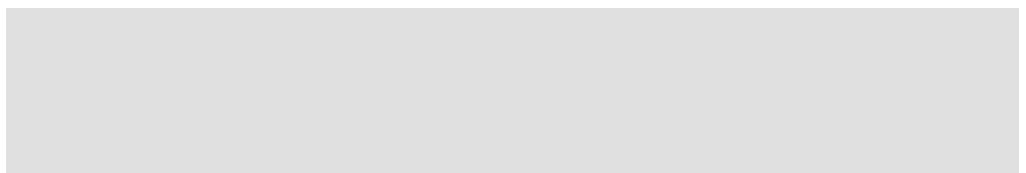
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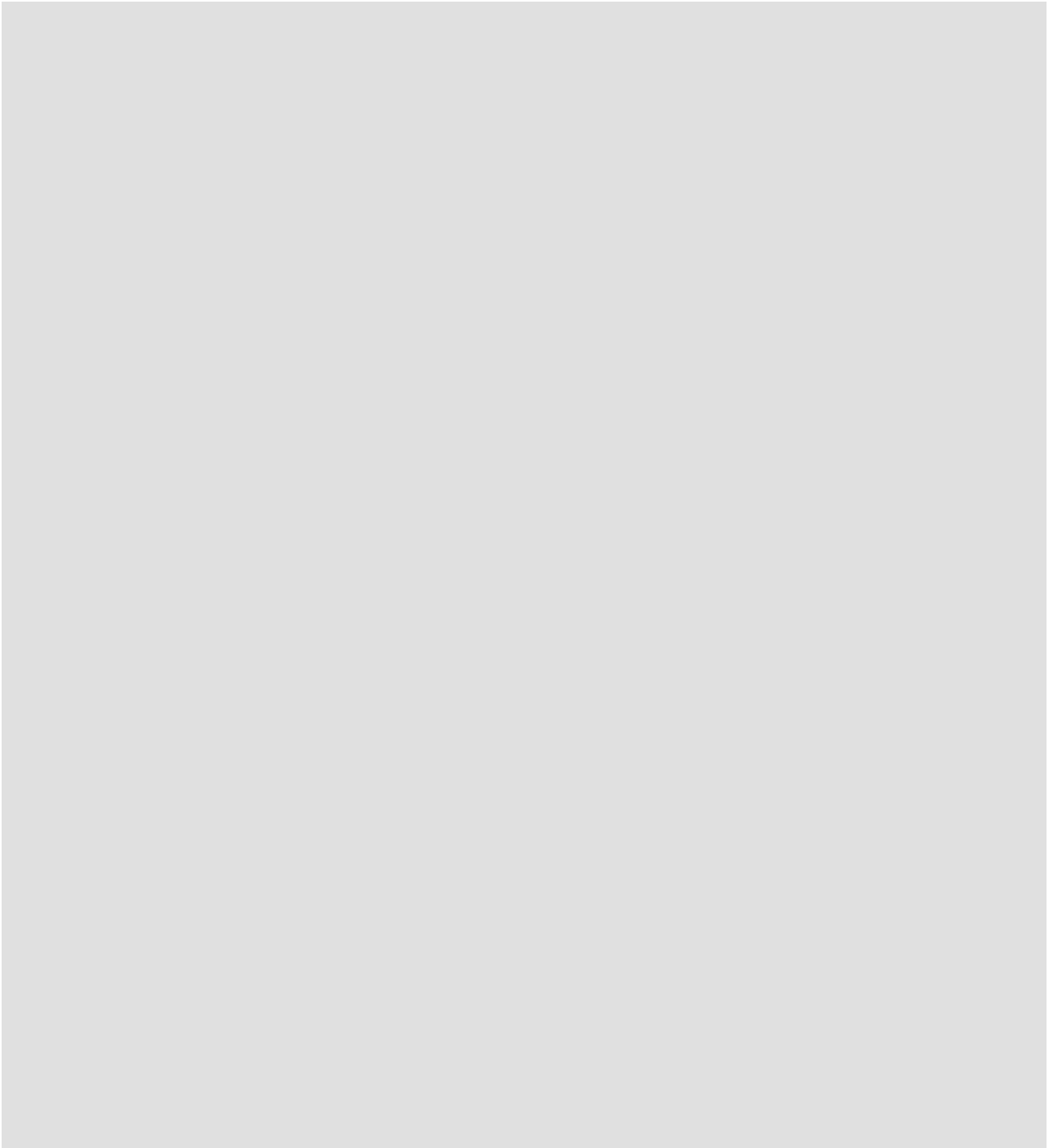
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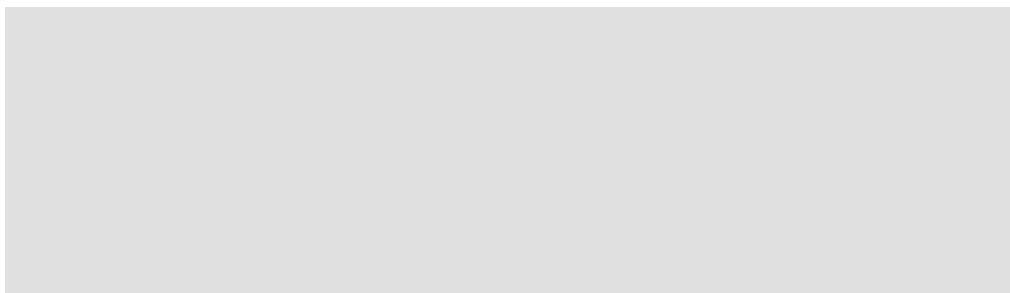
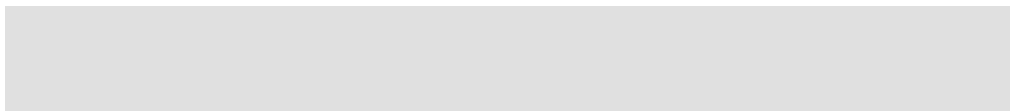


I#\$ 3\$





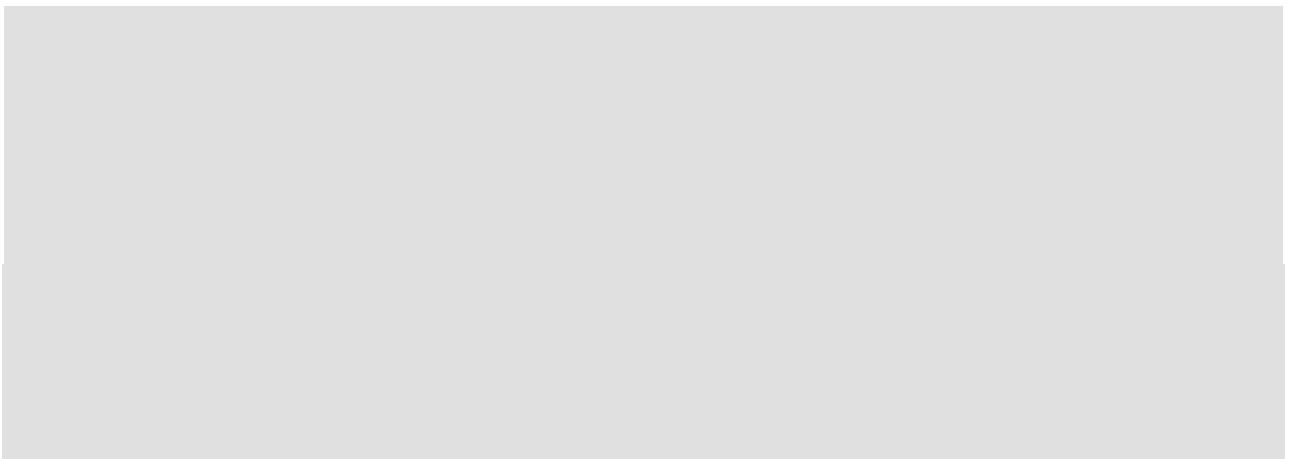
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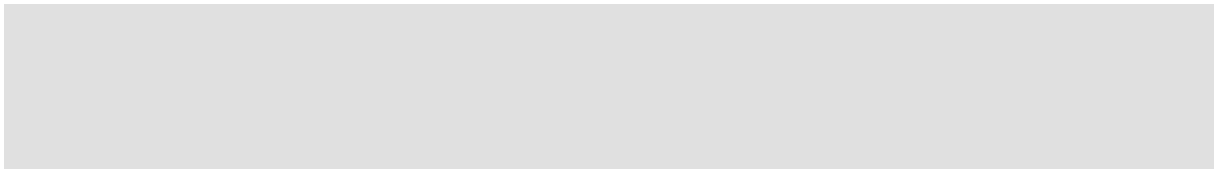
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GO I#5 GO #0

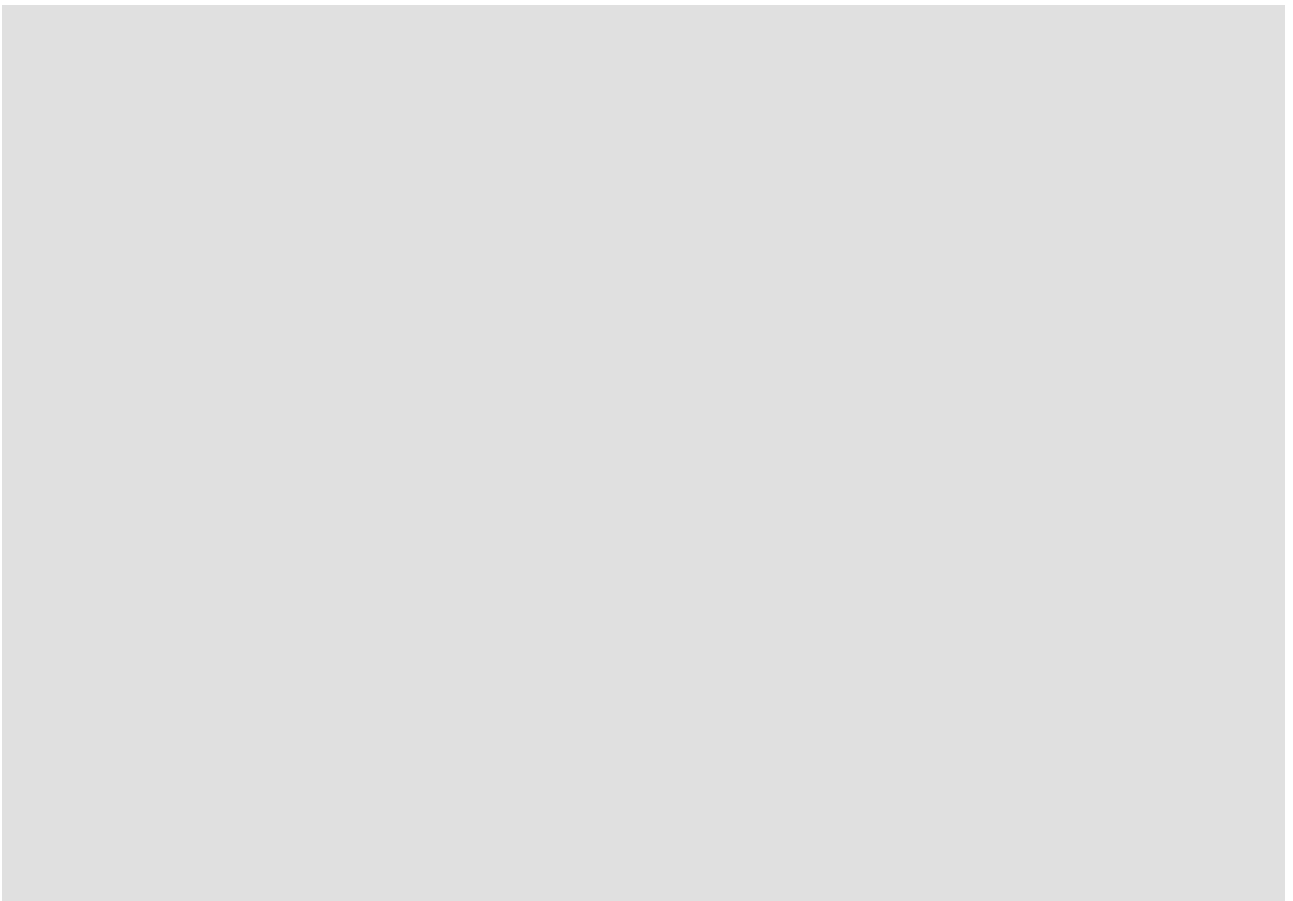
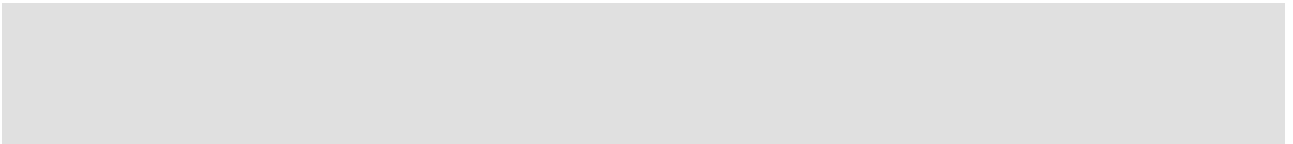
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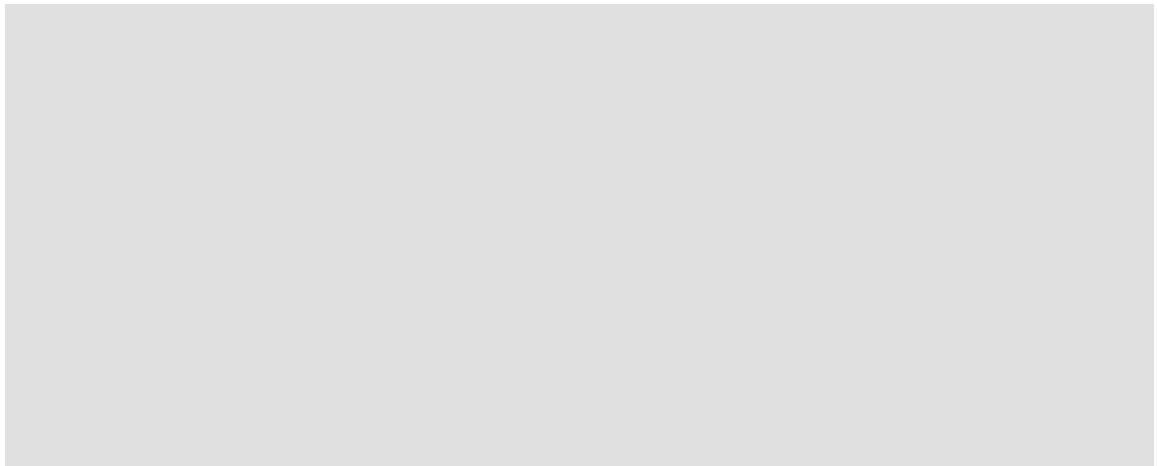
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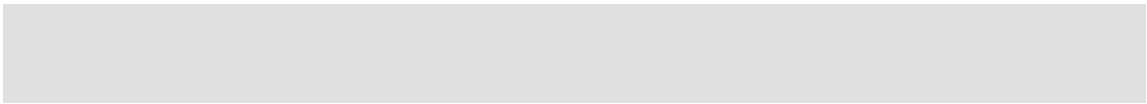
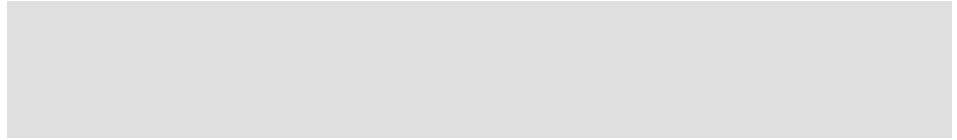
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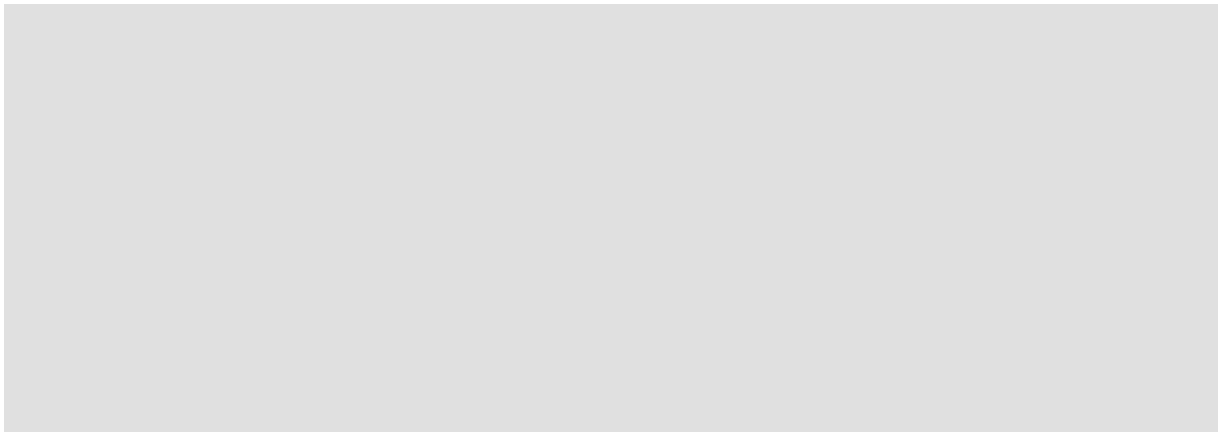




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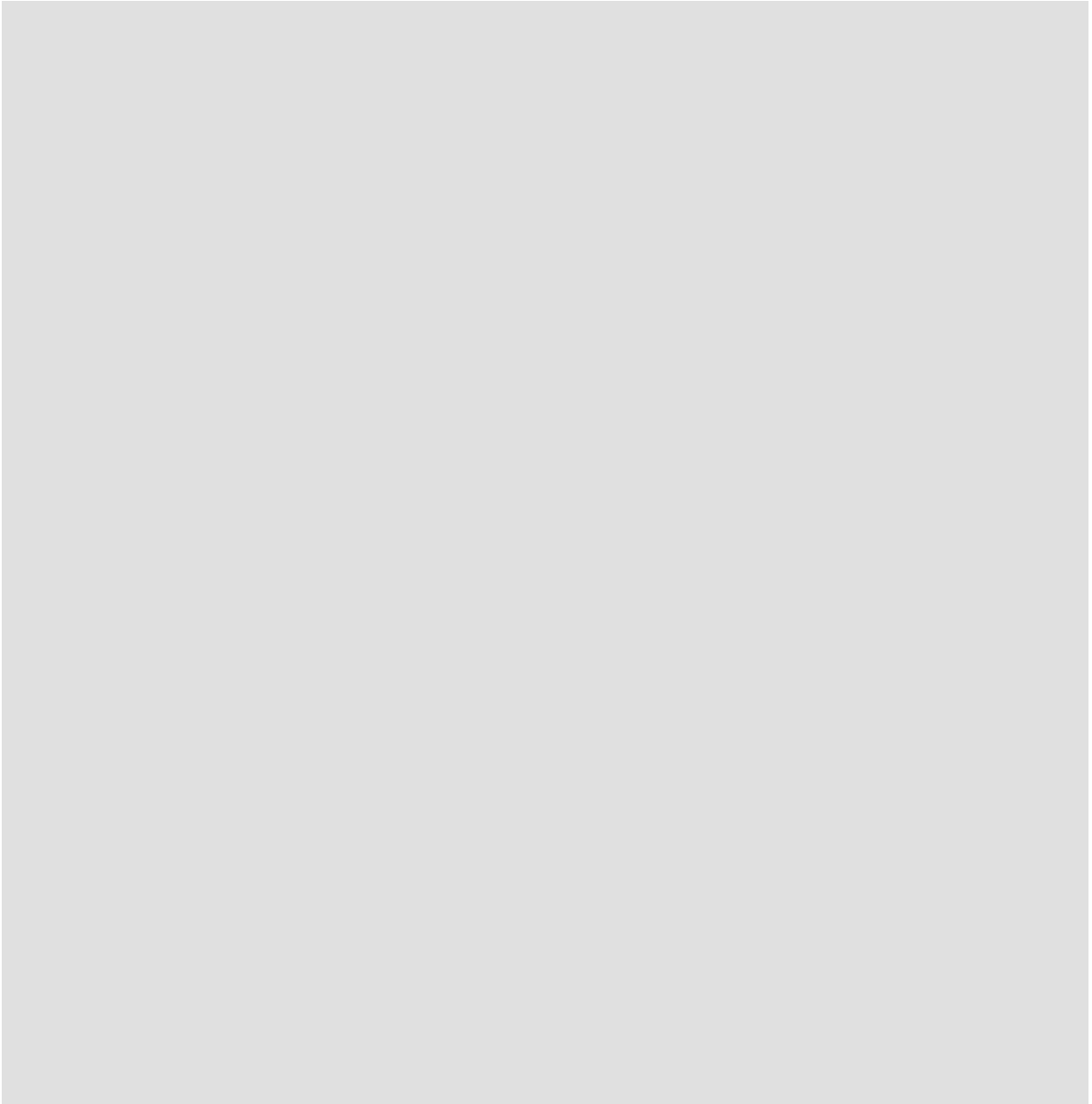
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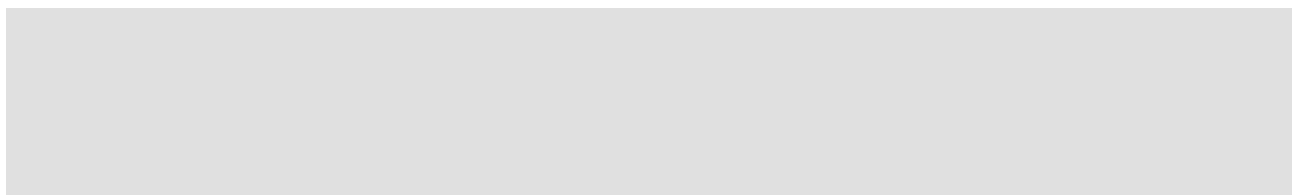
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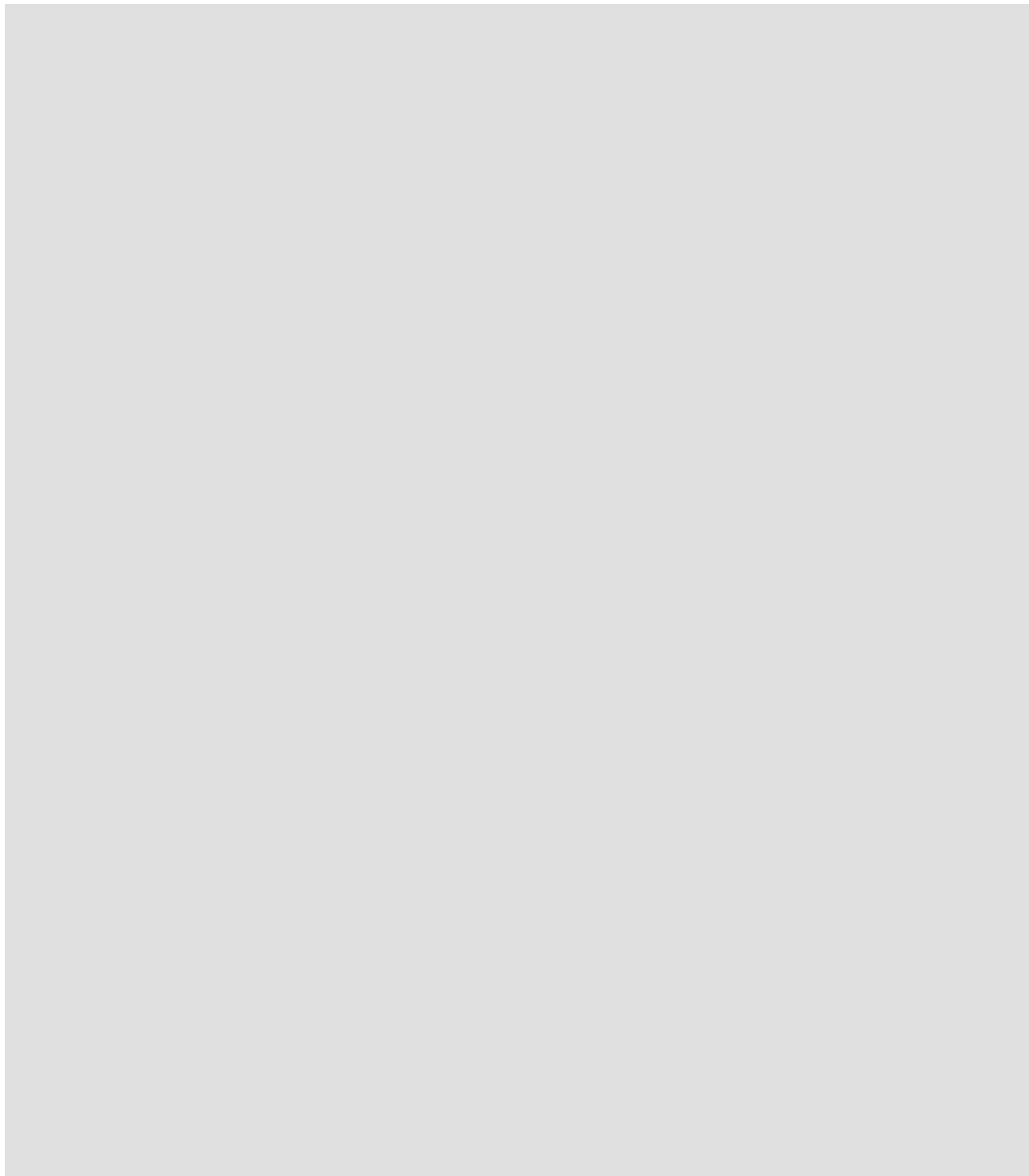
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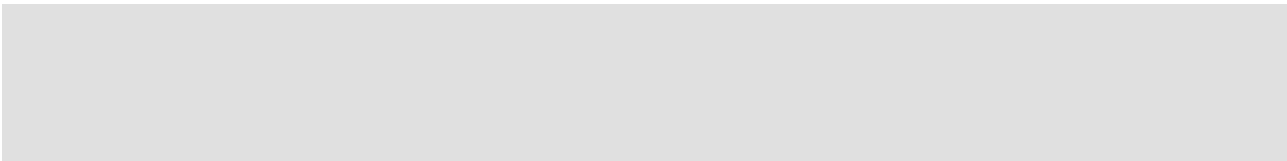
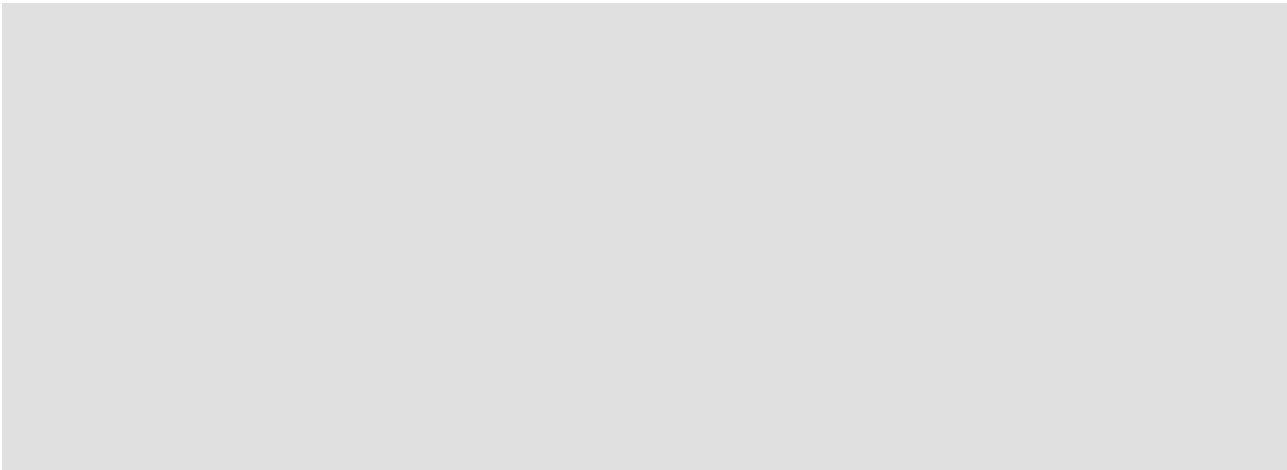
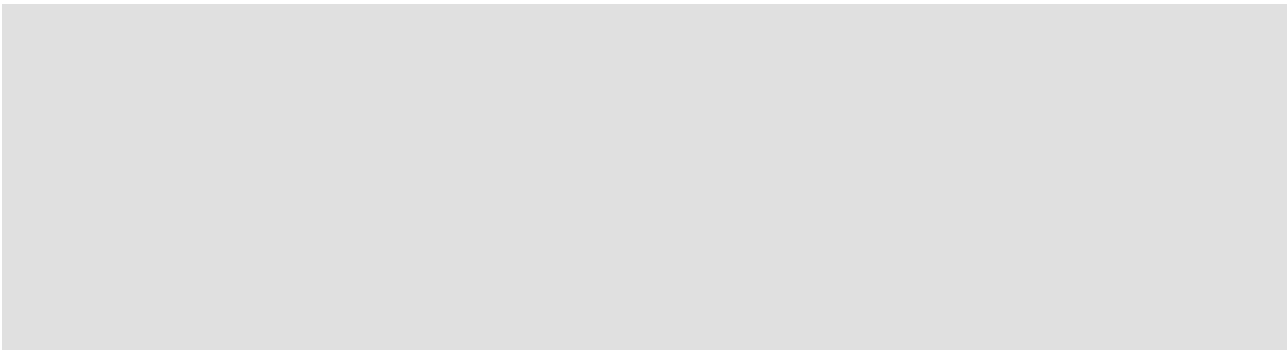




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% d020AC B.))* ,/.B(I (1 ;, <=.B.:. 60)+A(2*.A, #F :60 ./ J>= ).SA,/0/F  
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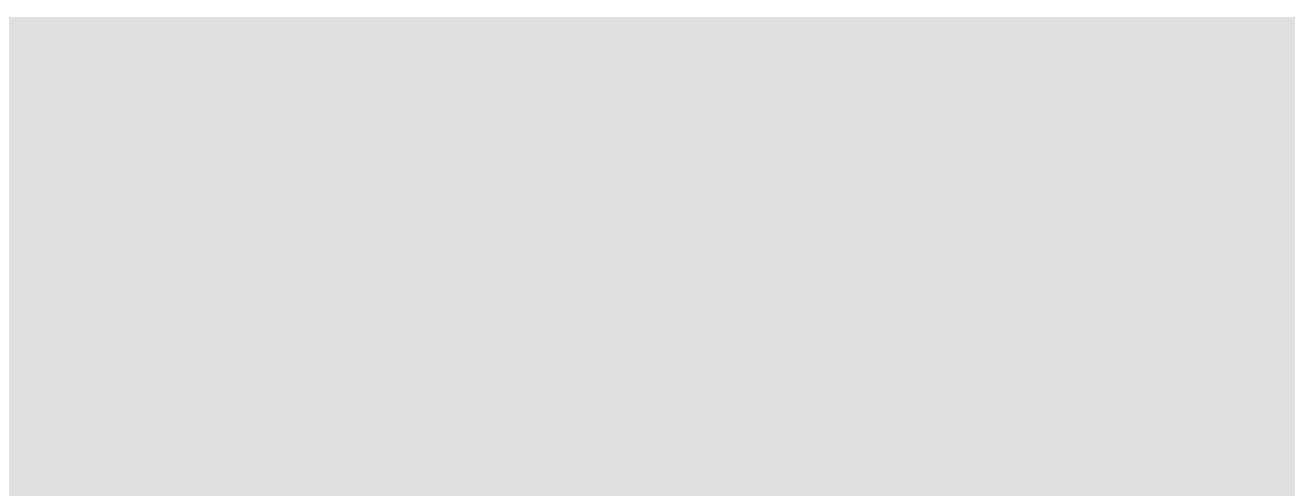
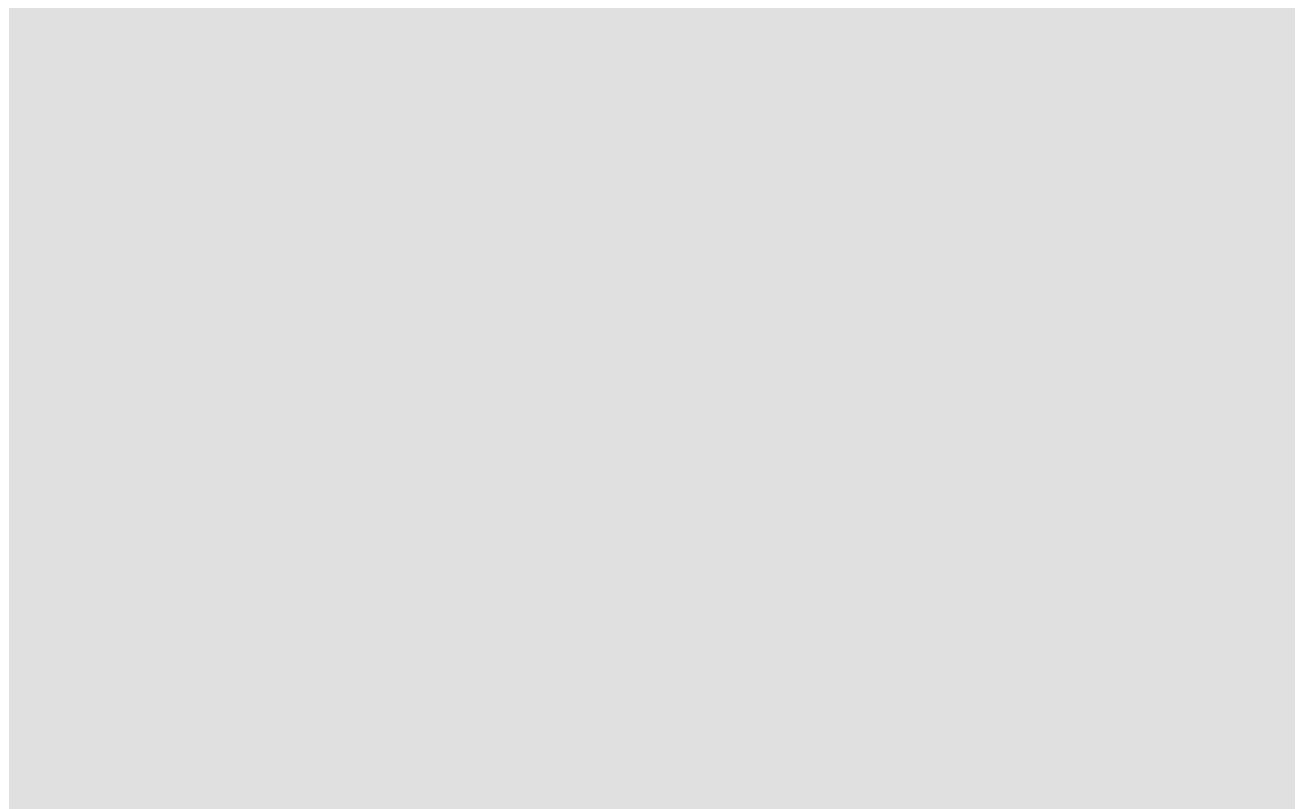
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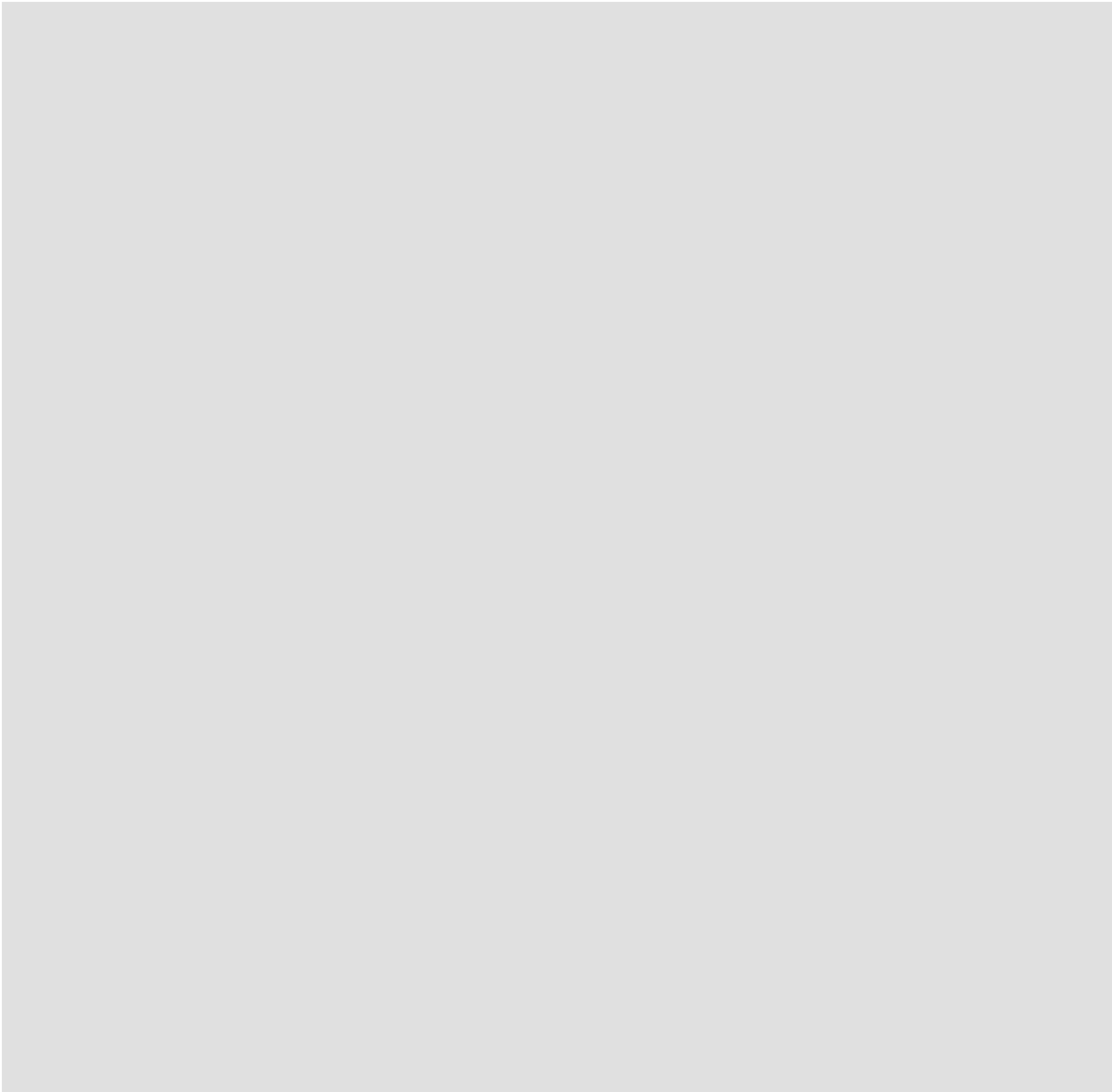
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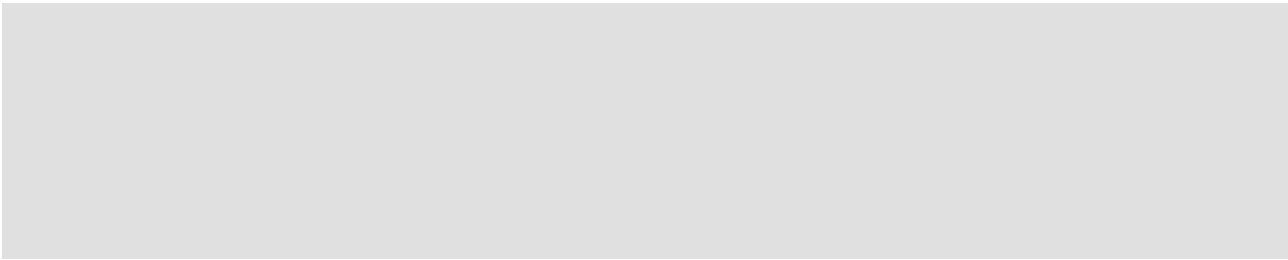
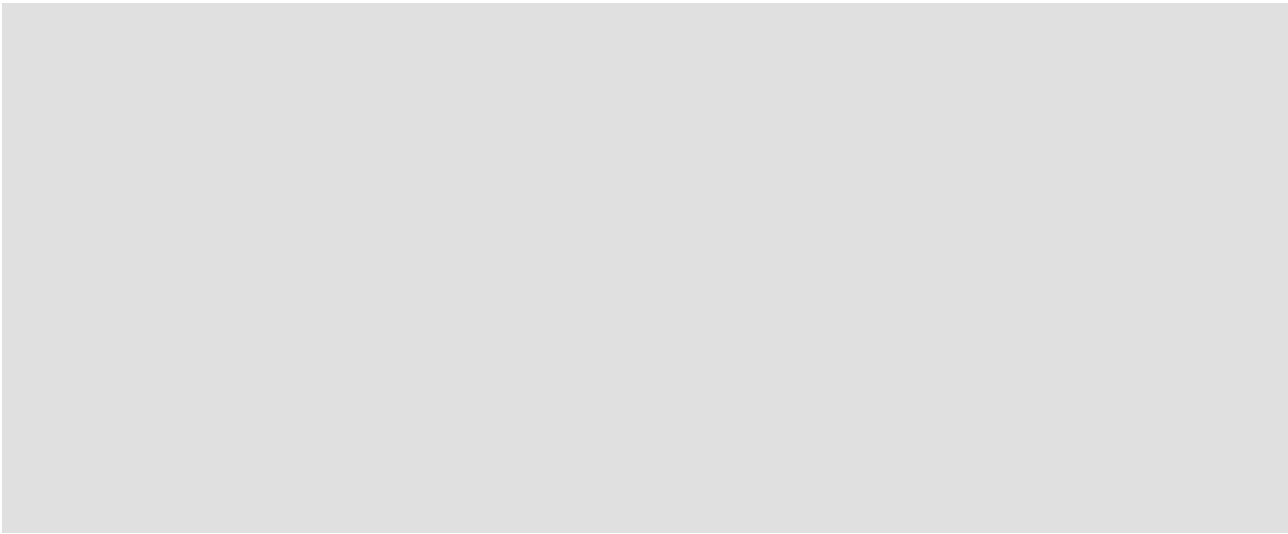
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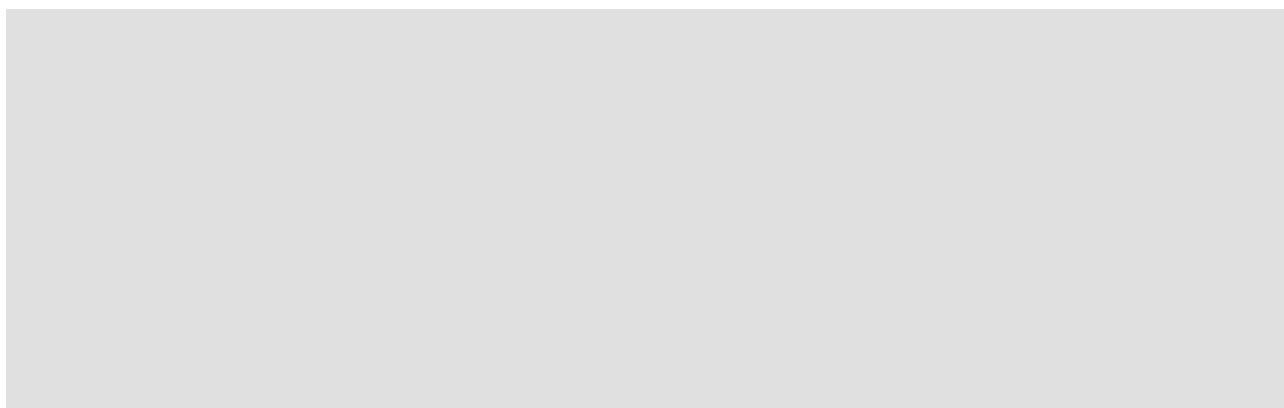
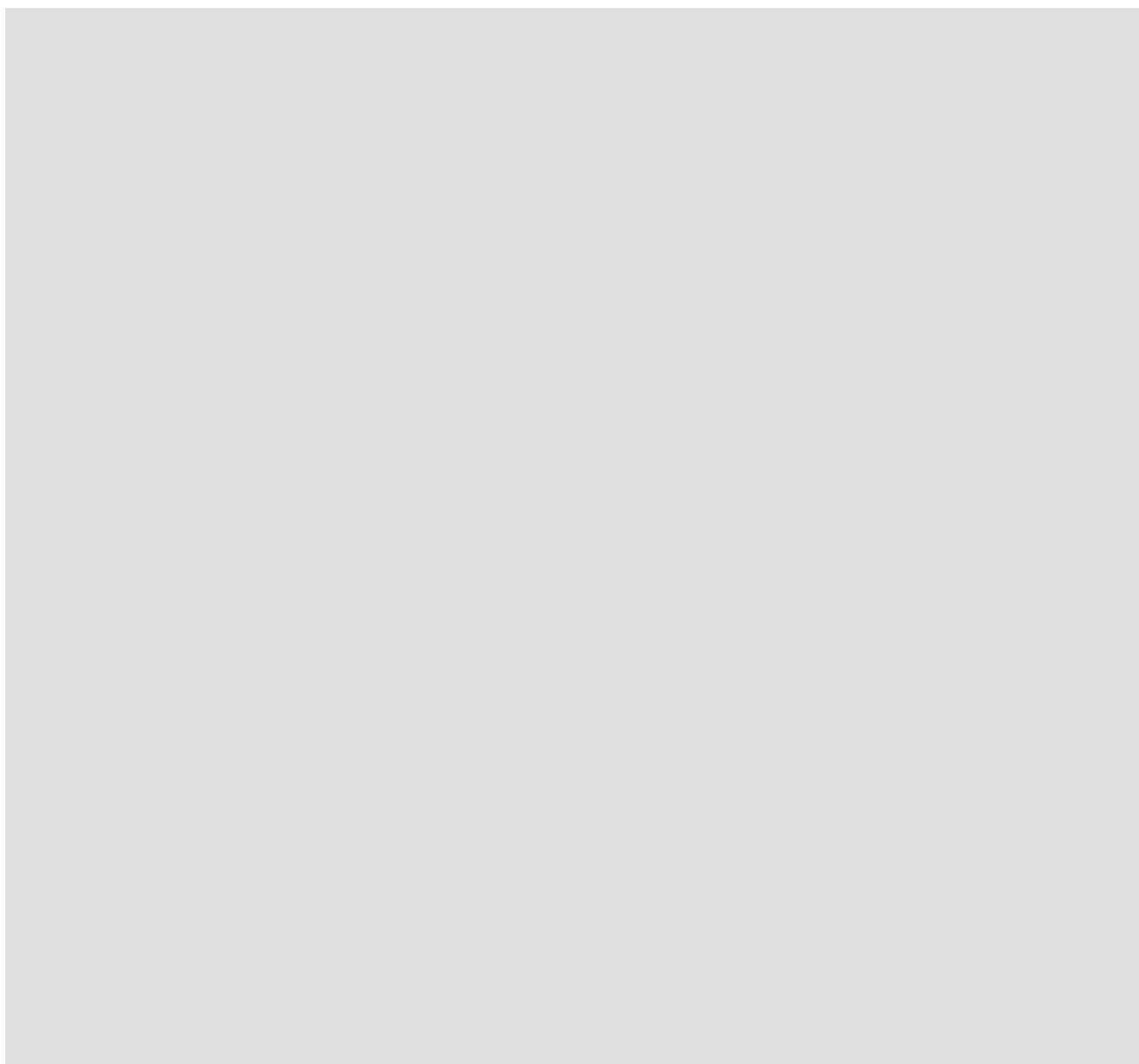




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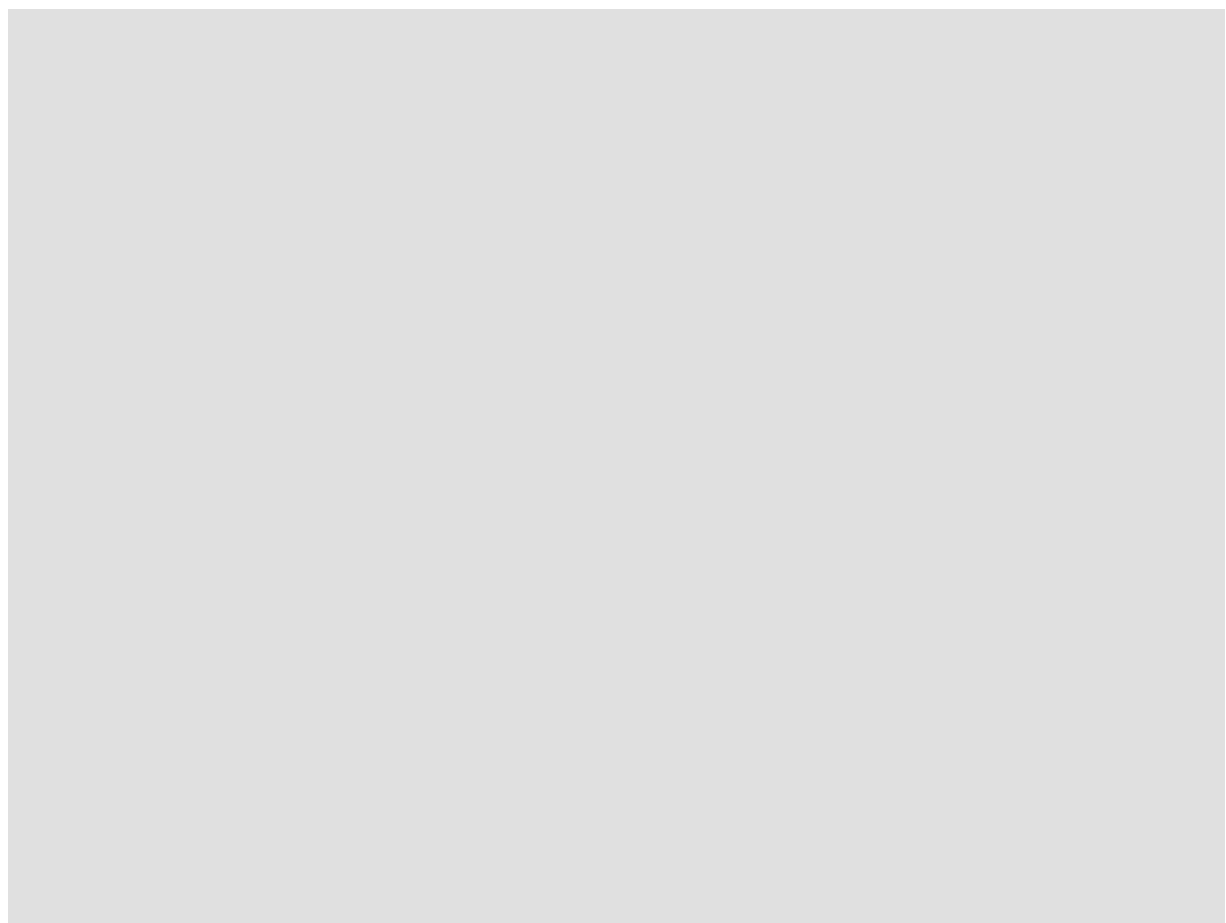
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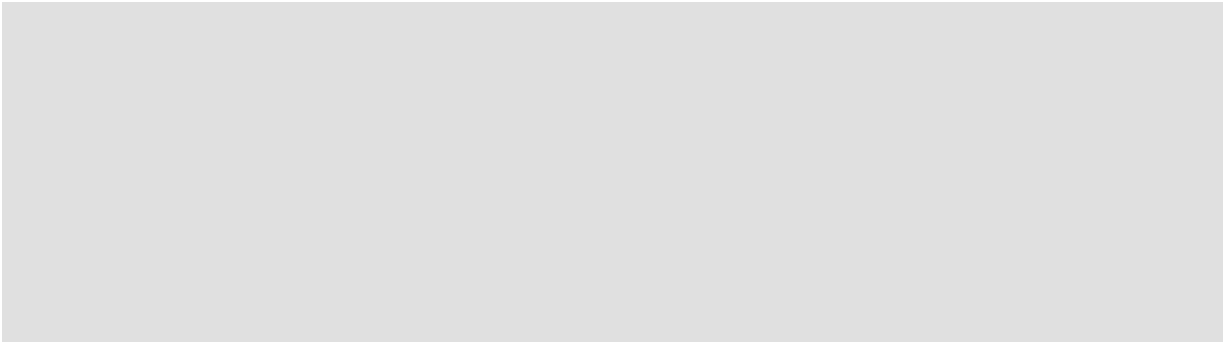
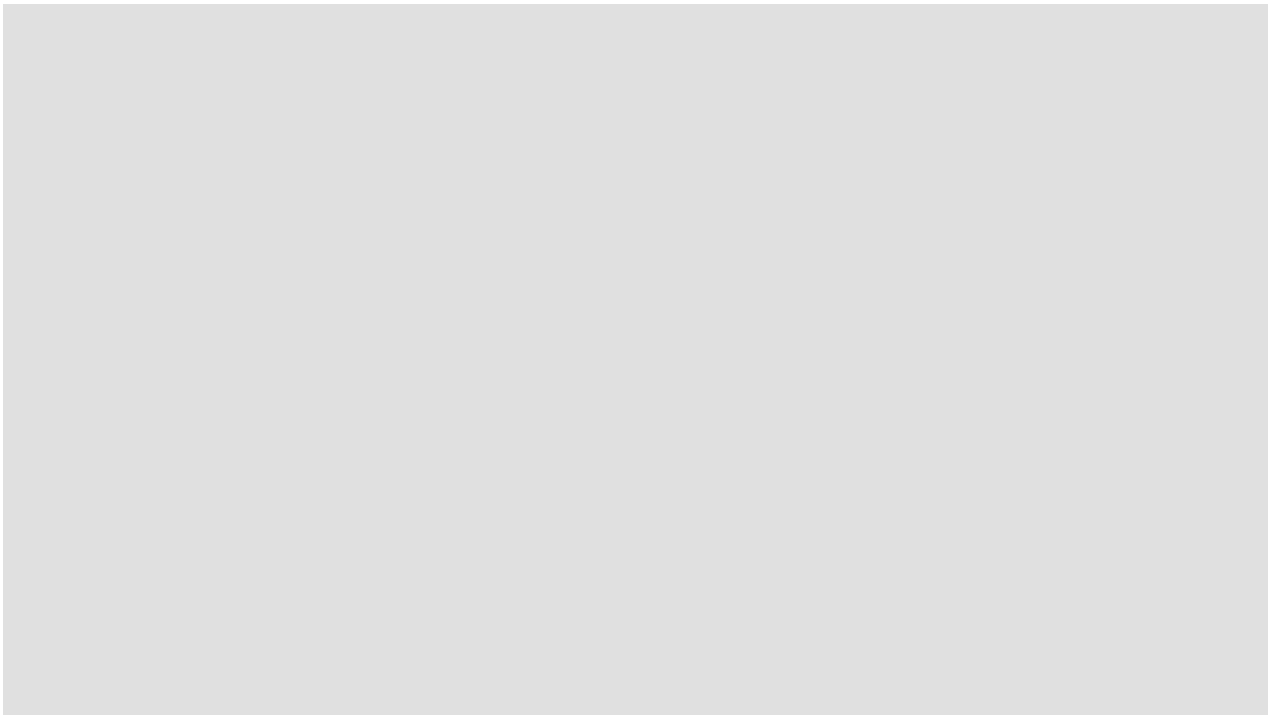






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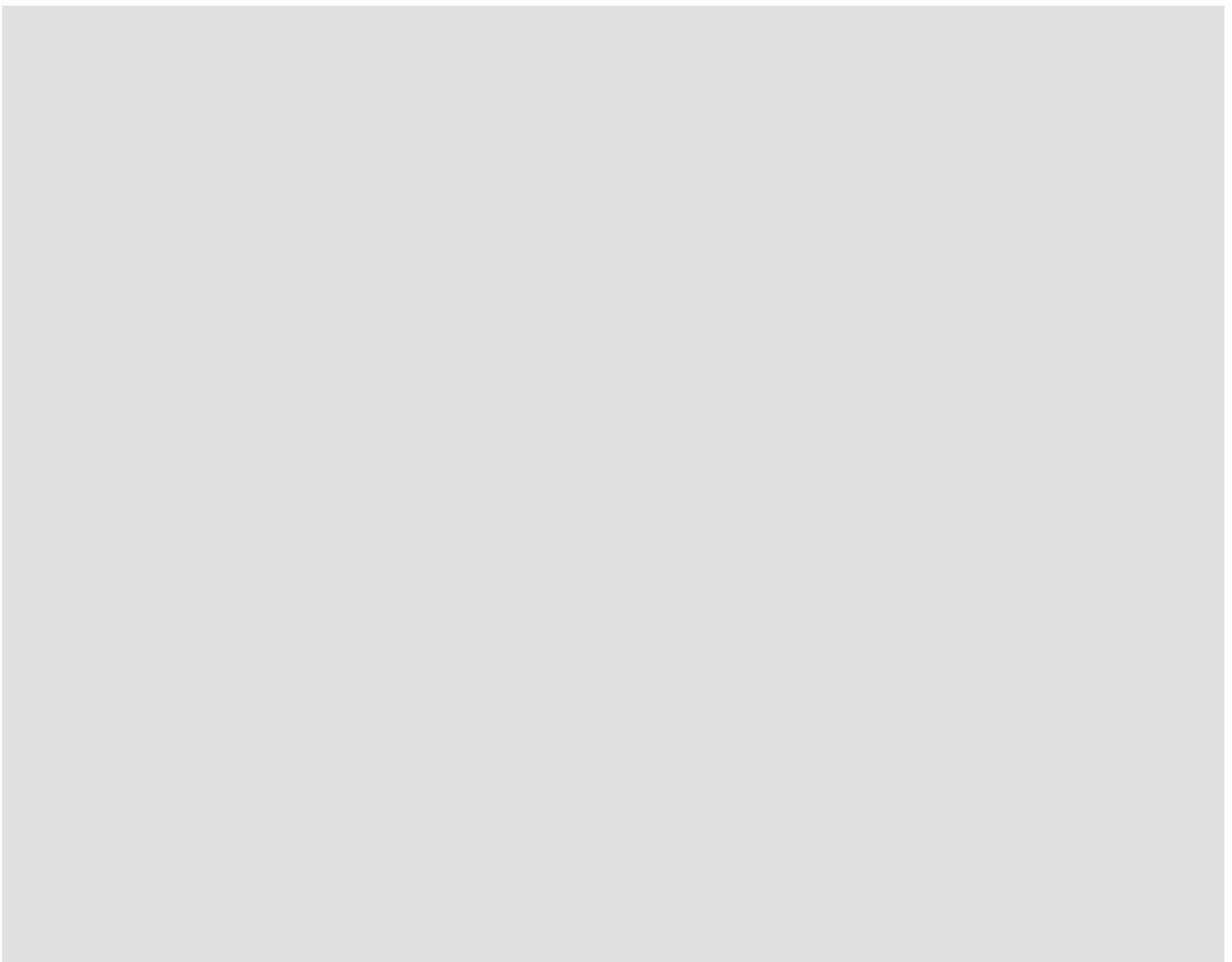
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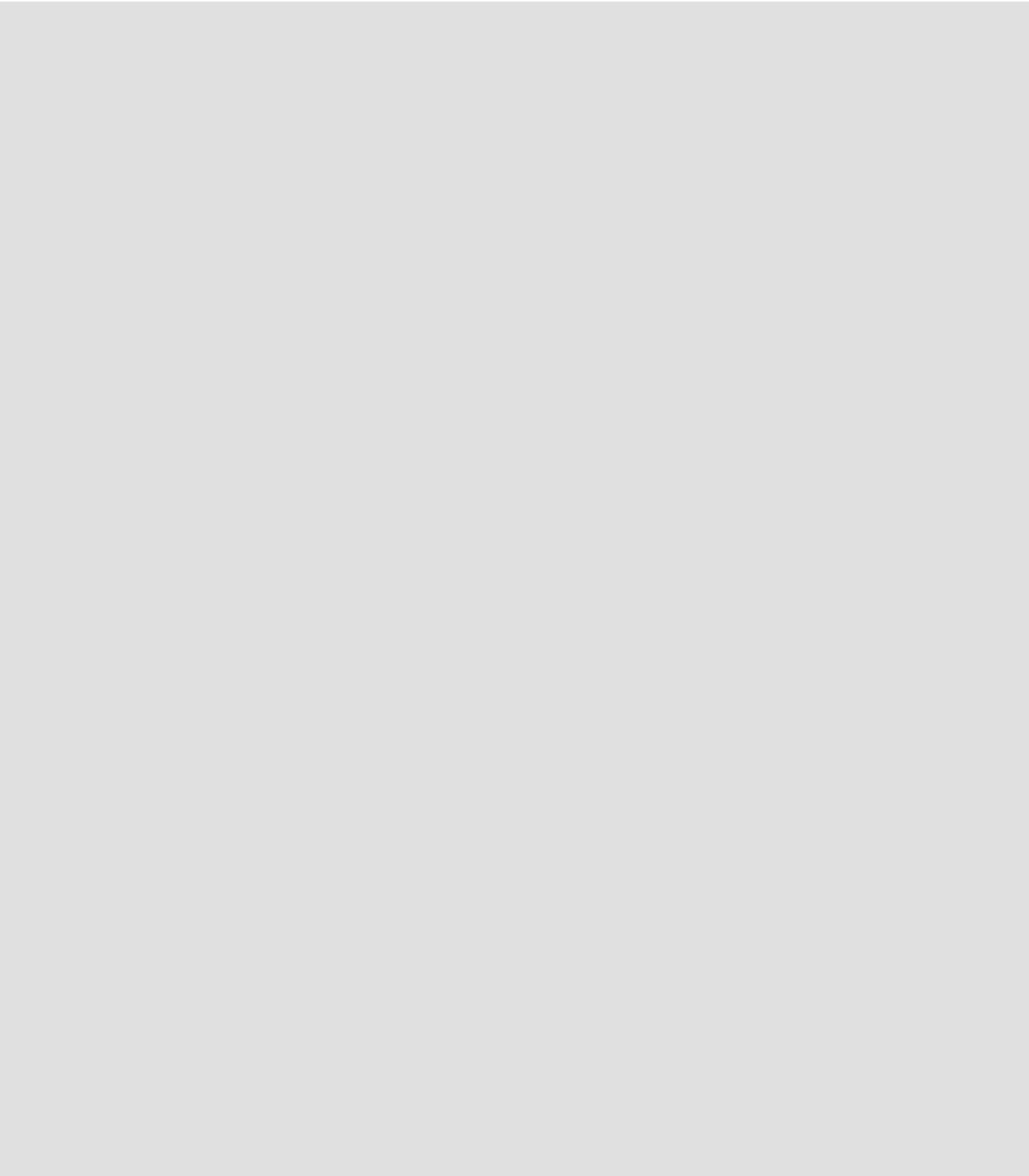
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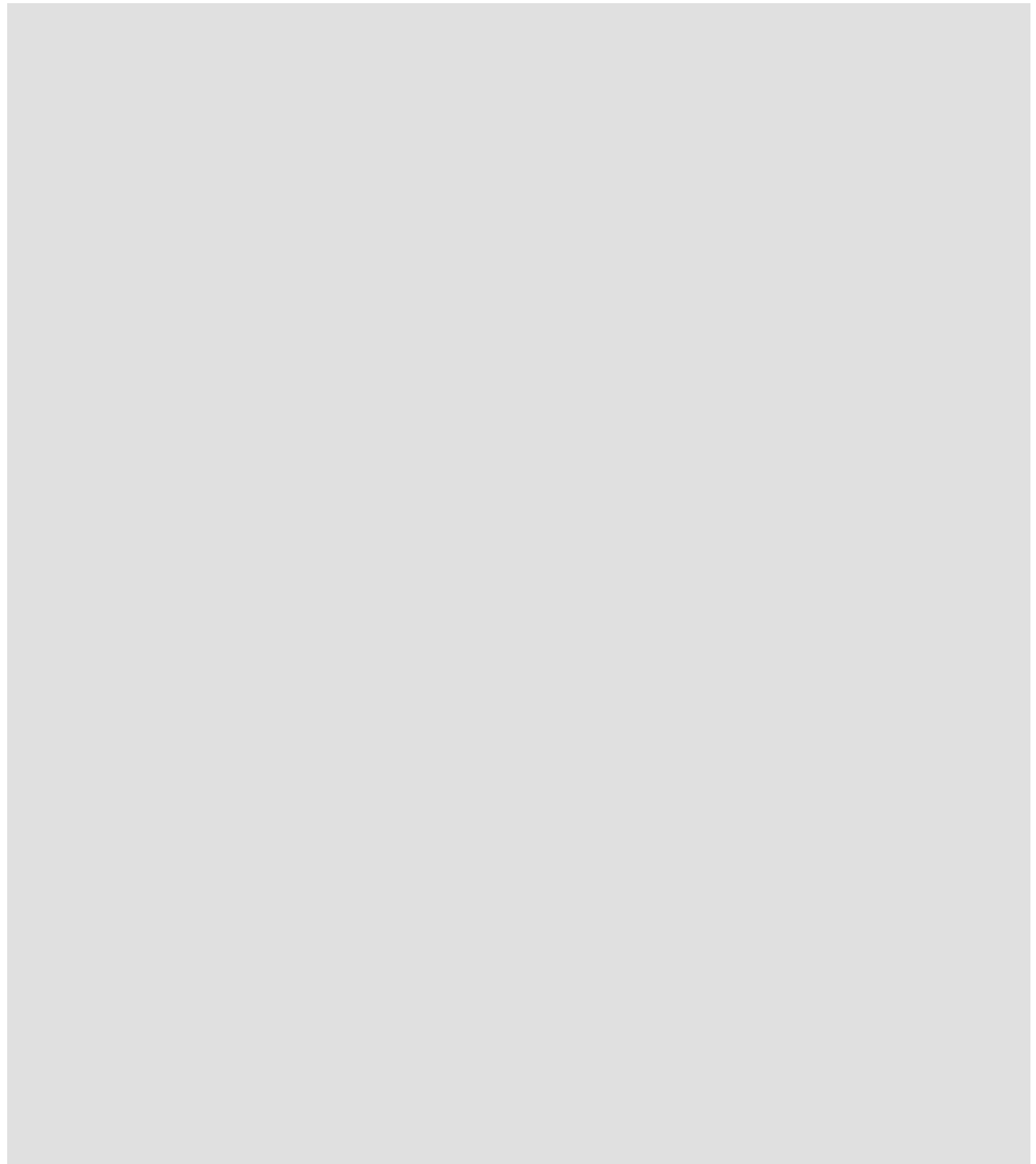
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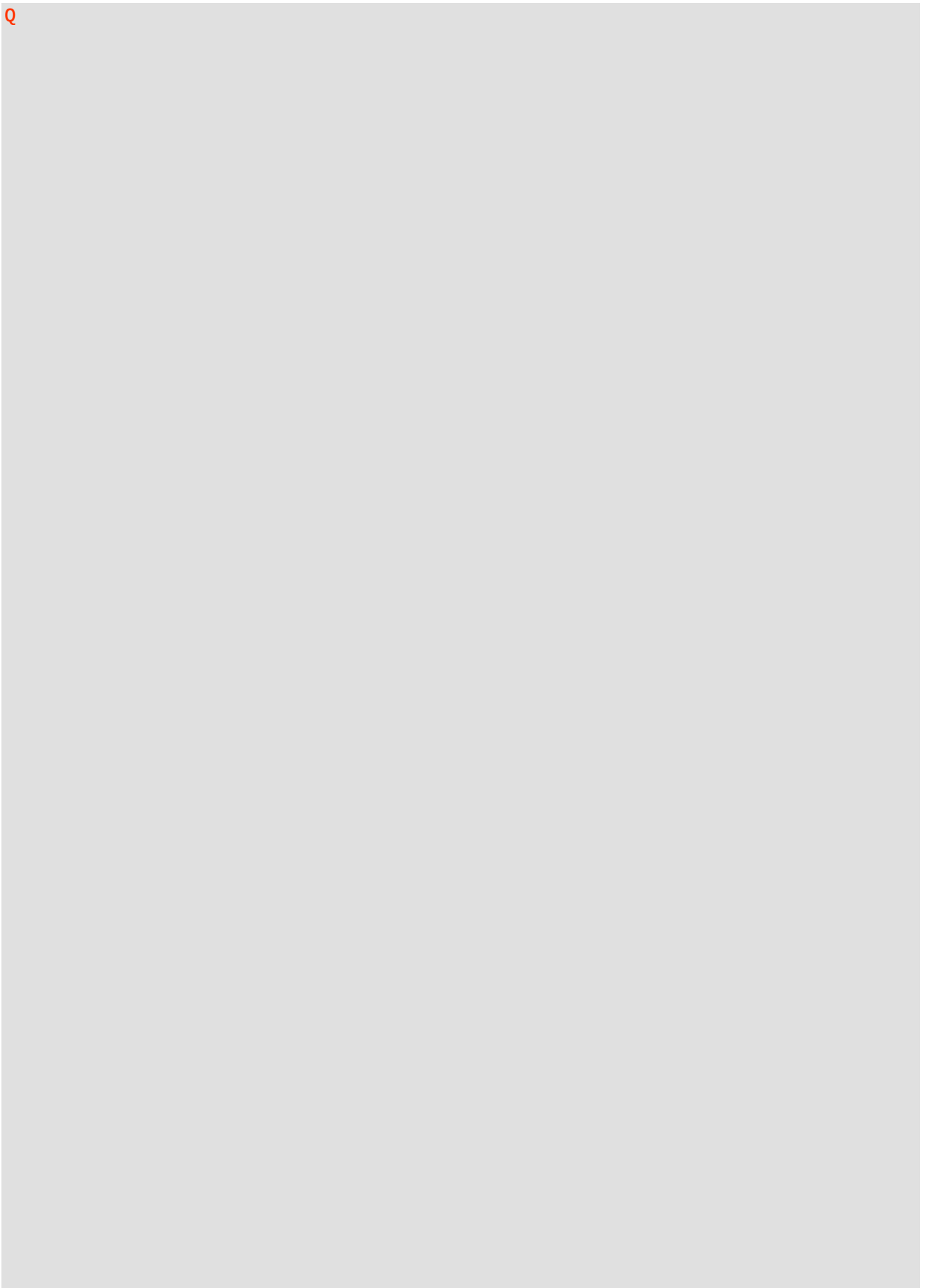
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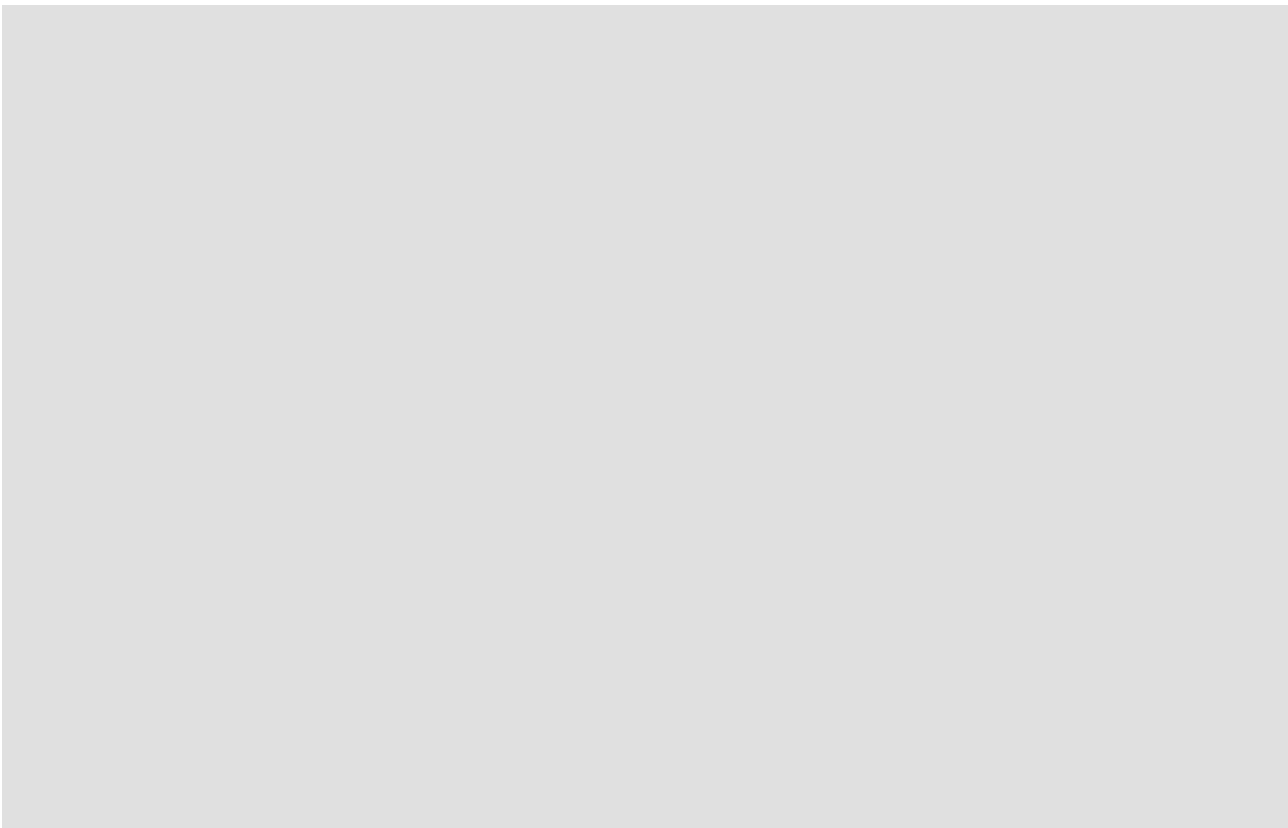
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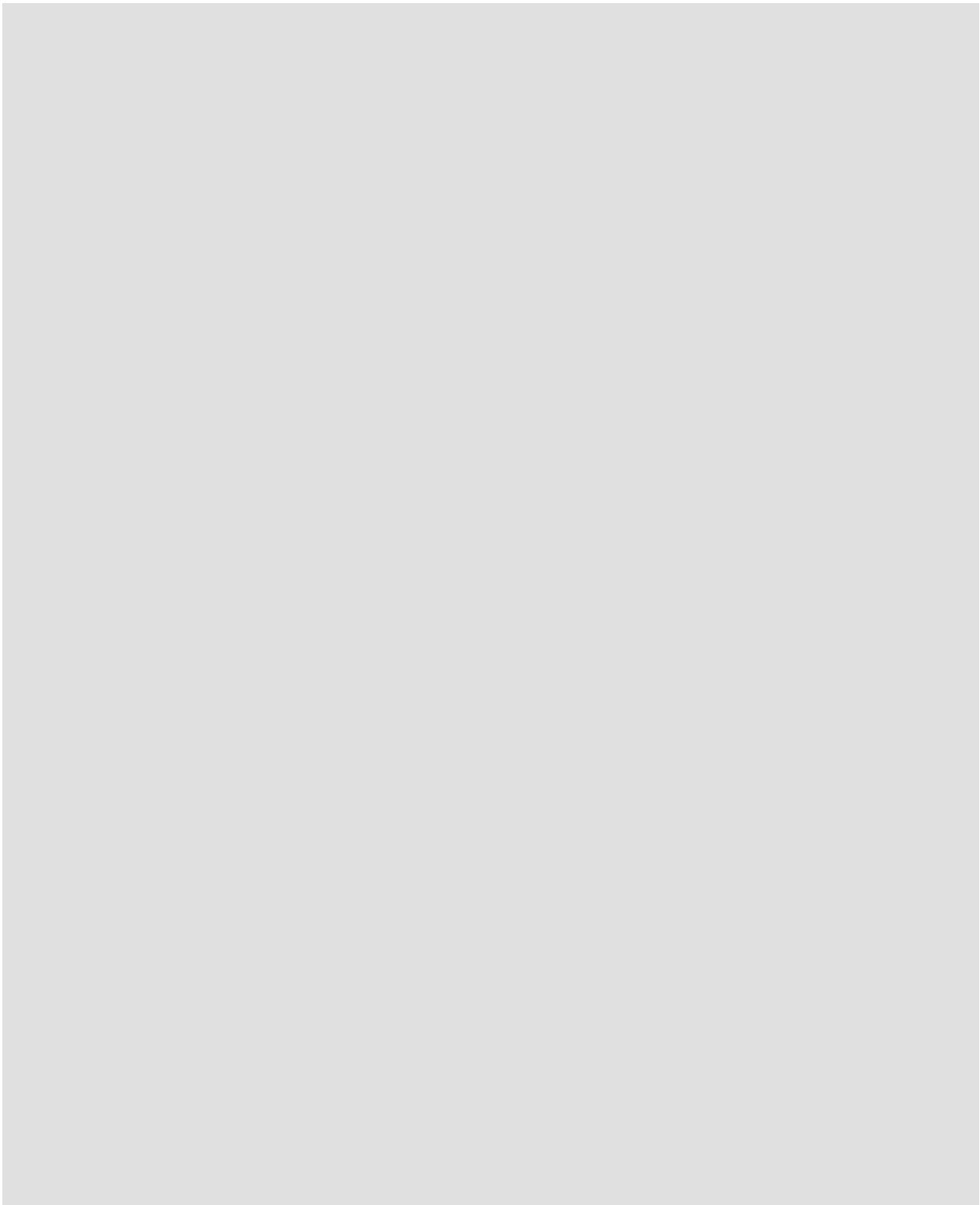
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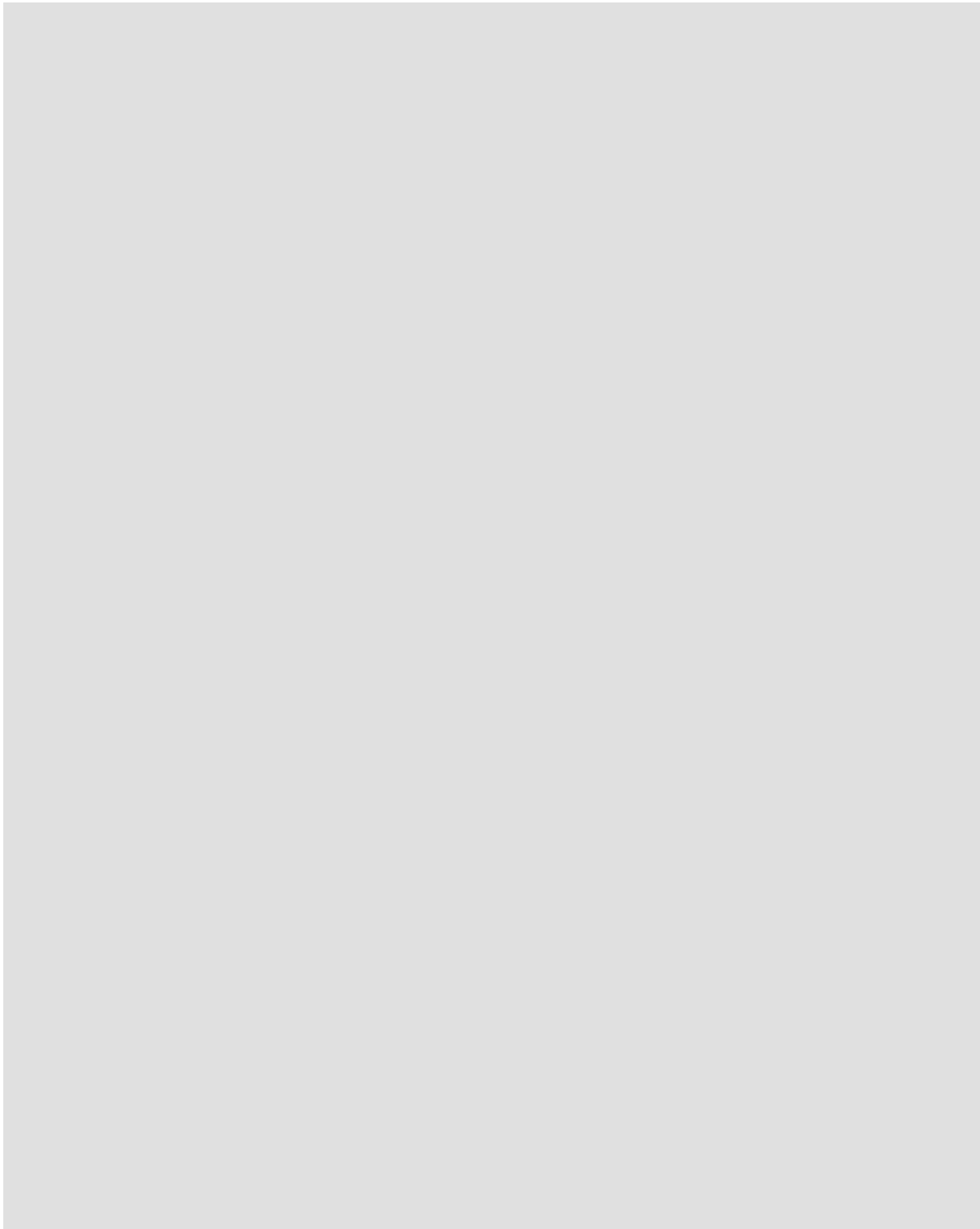






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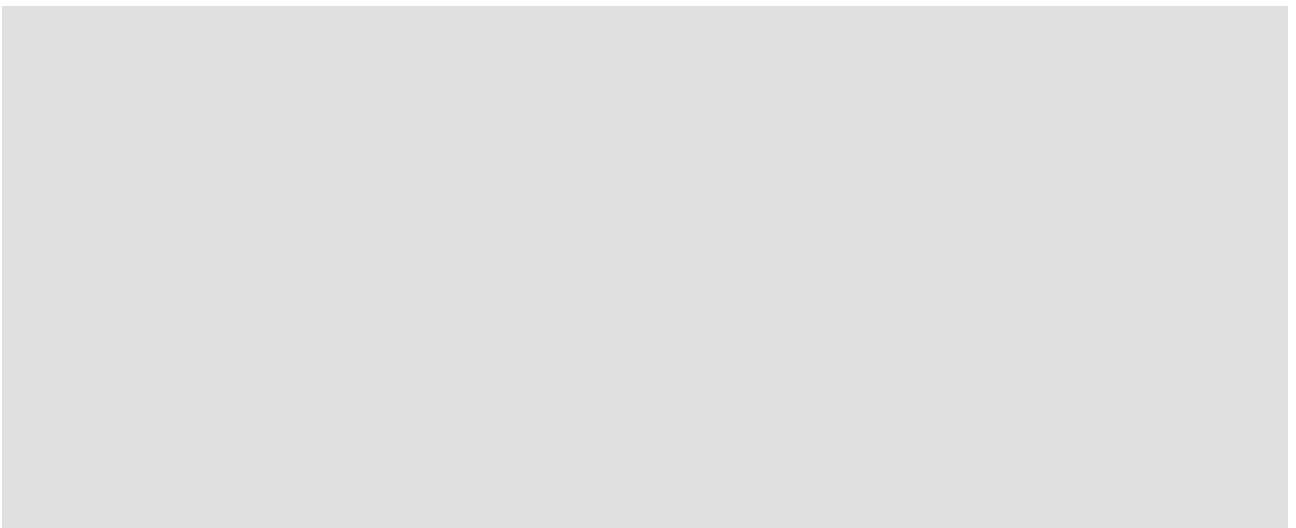
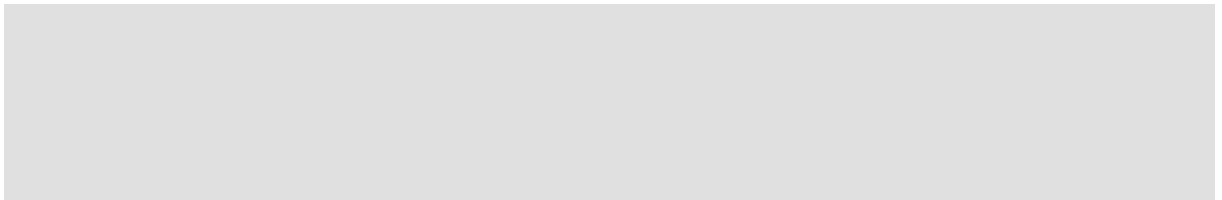


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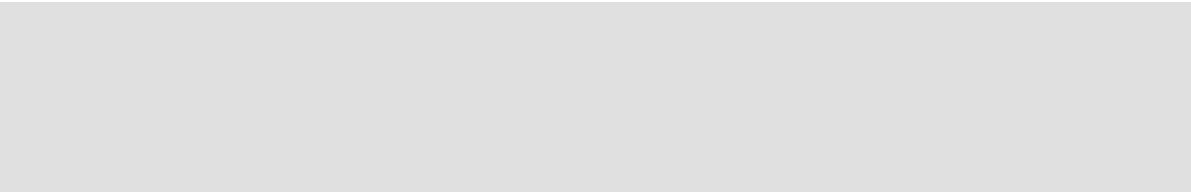
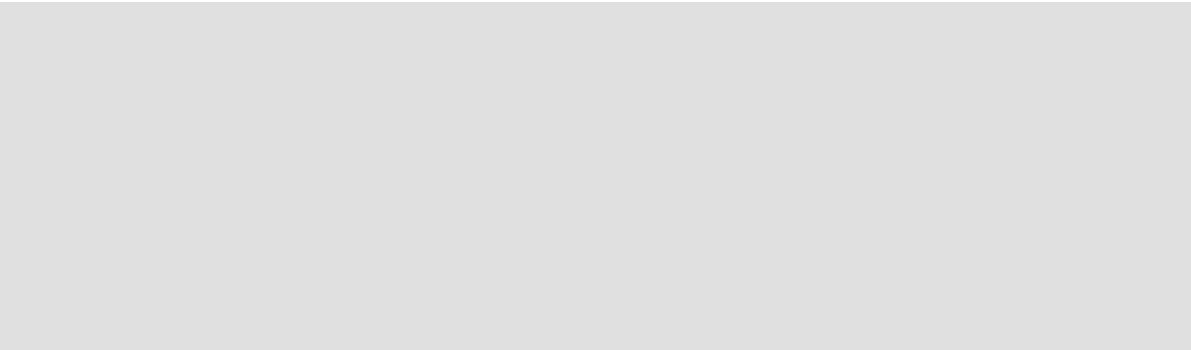
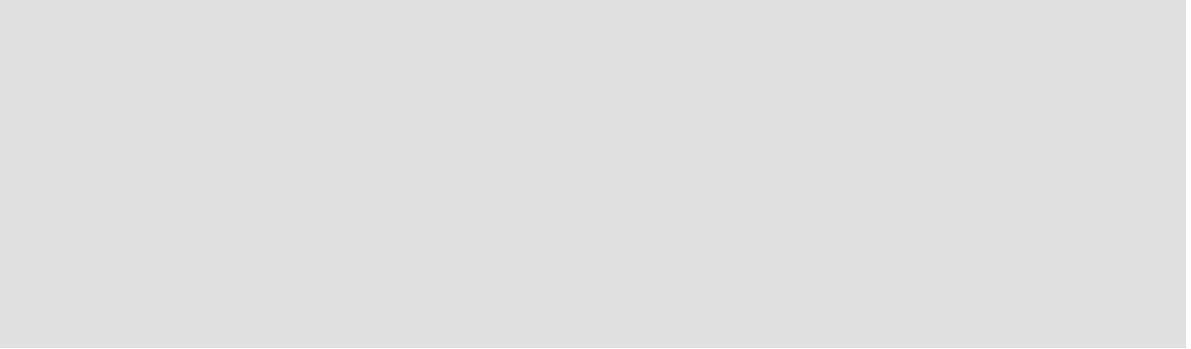




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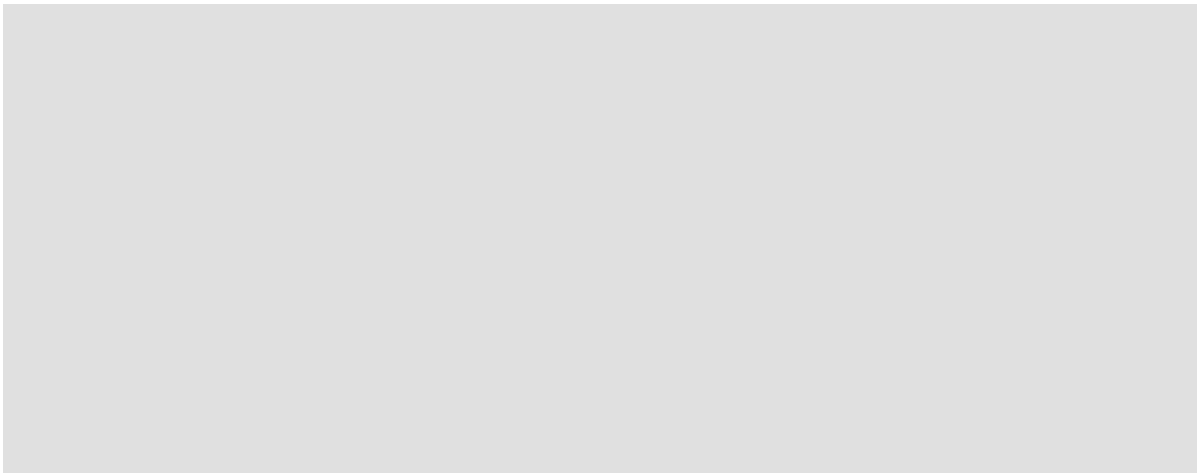
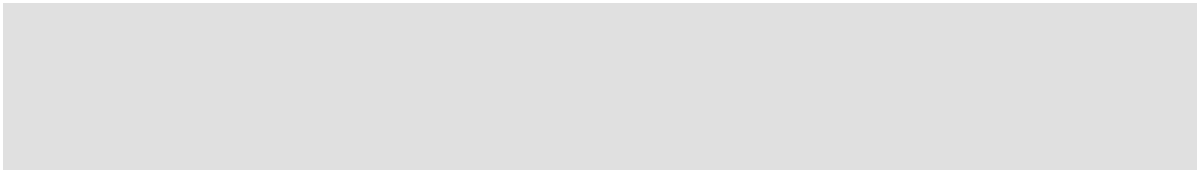








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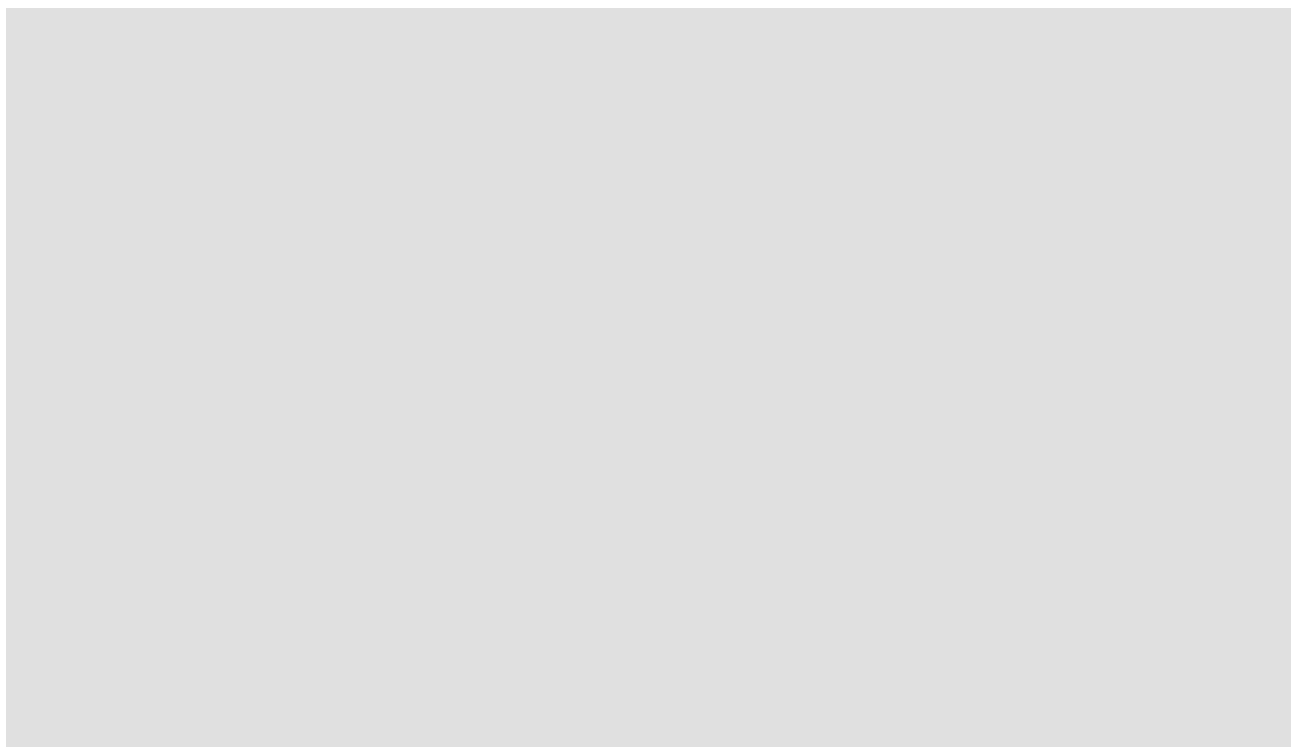
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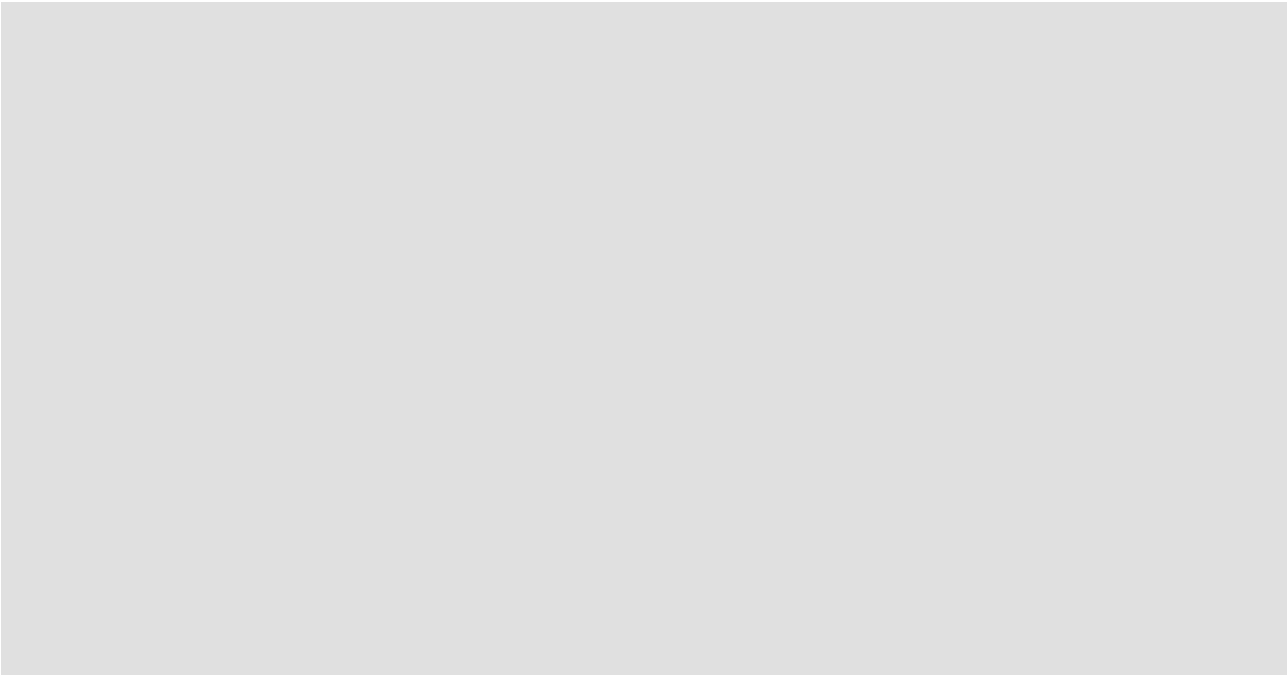
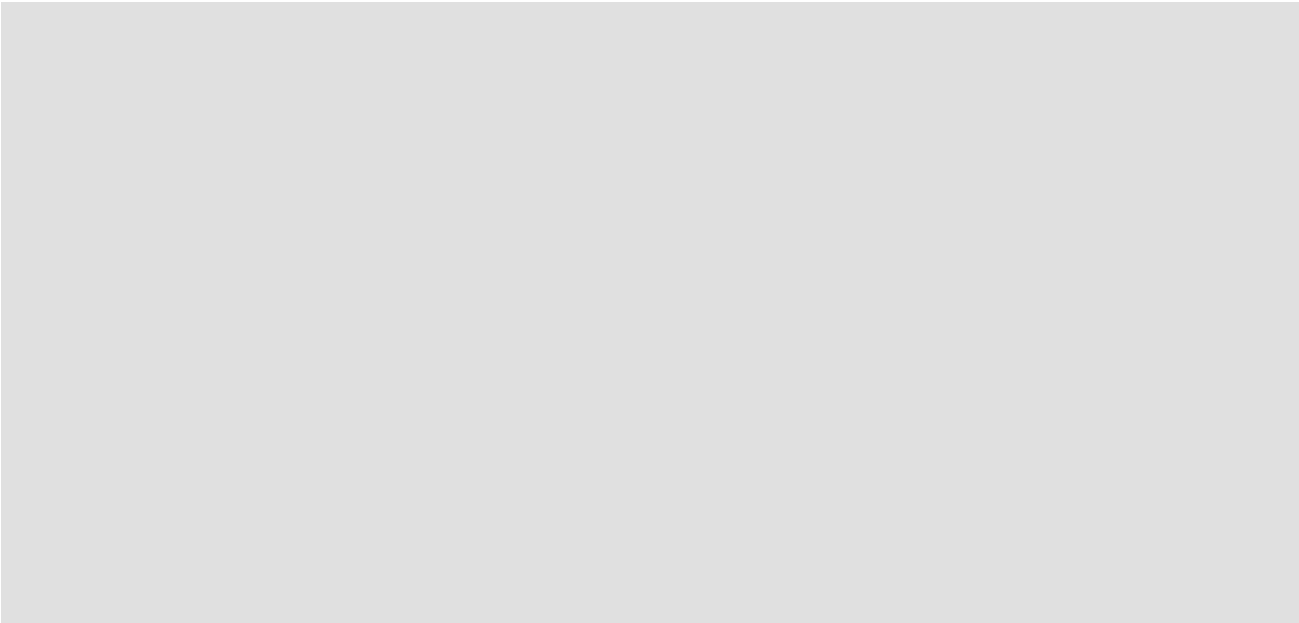


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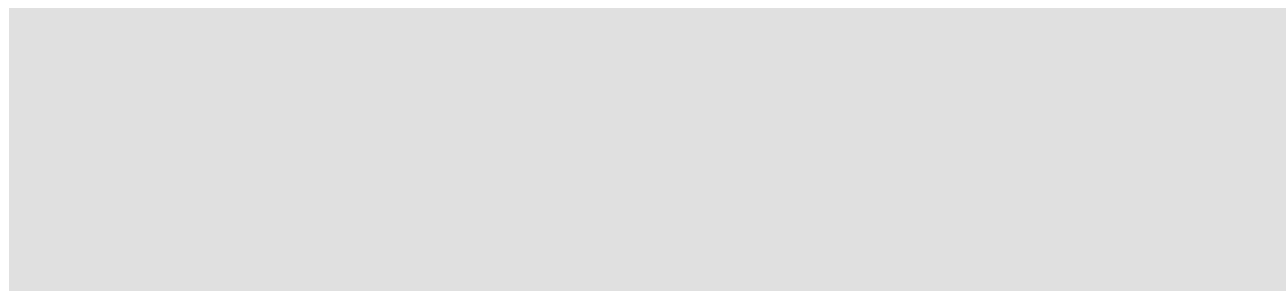
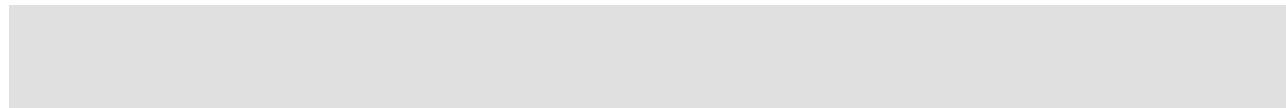
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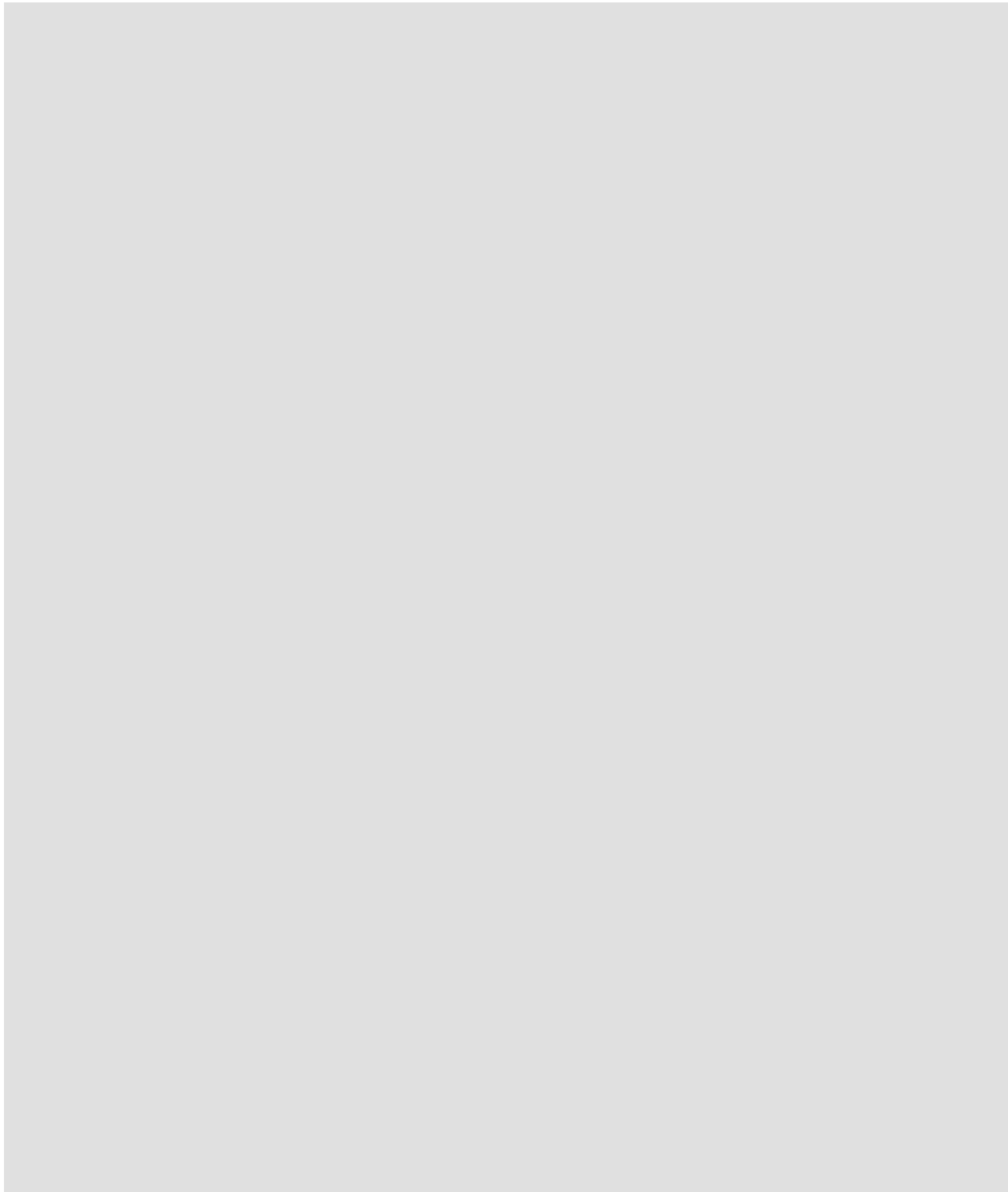
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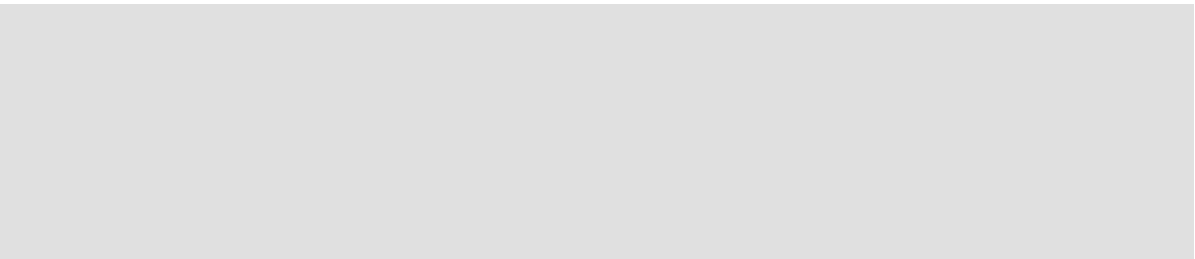
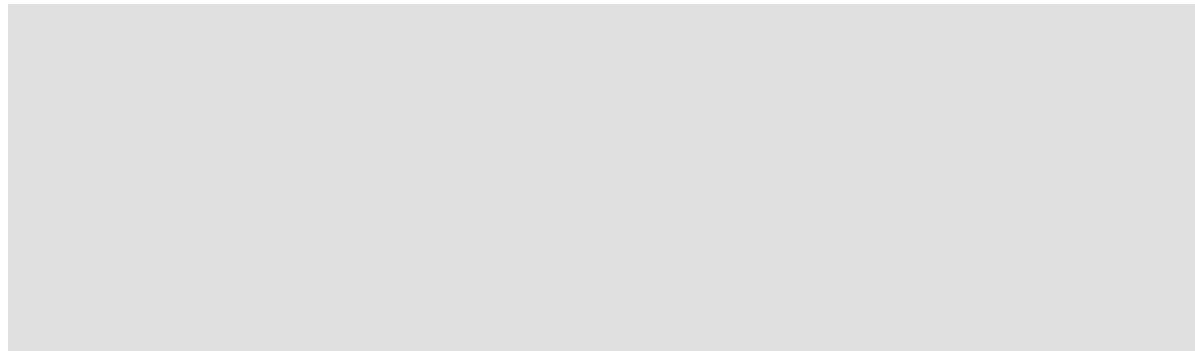






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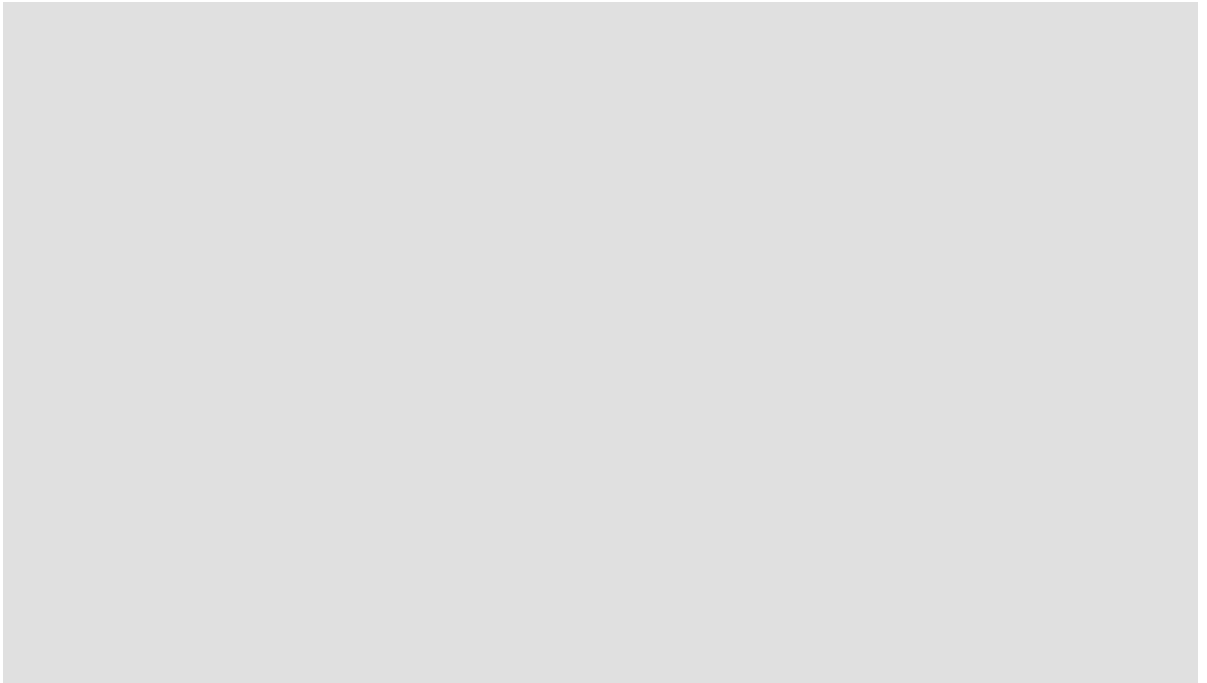
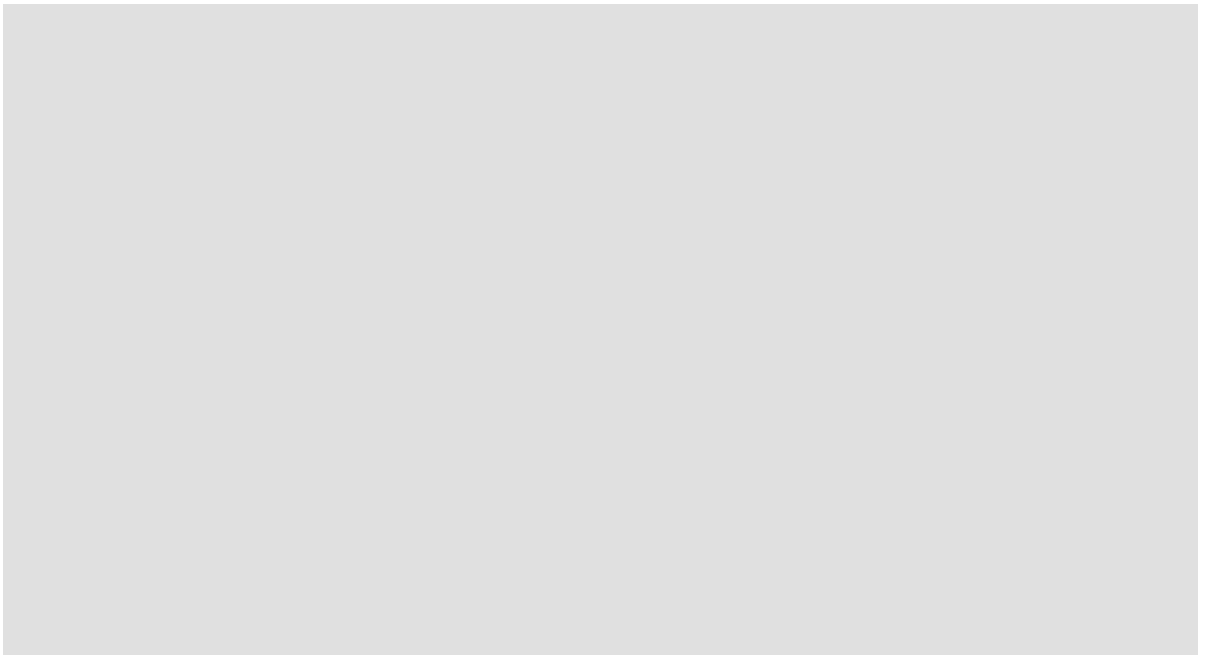
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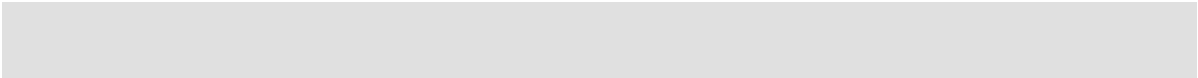
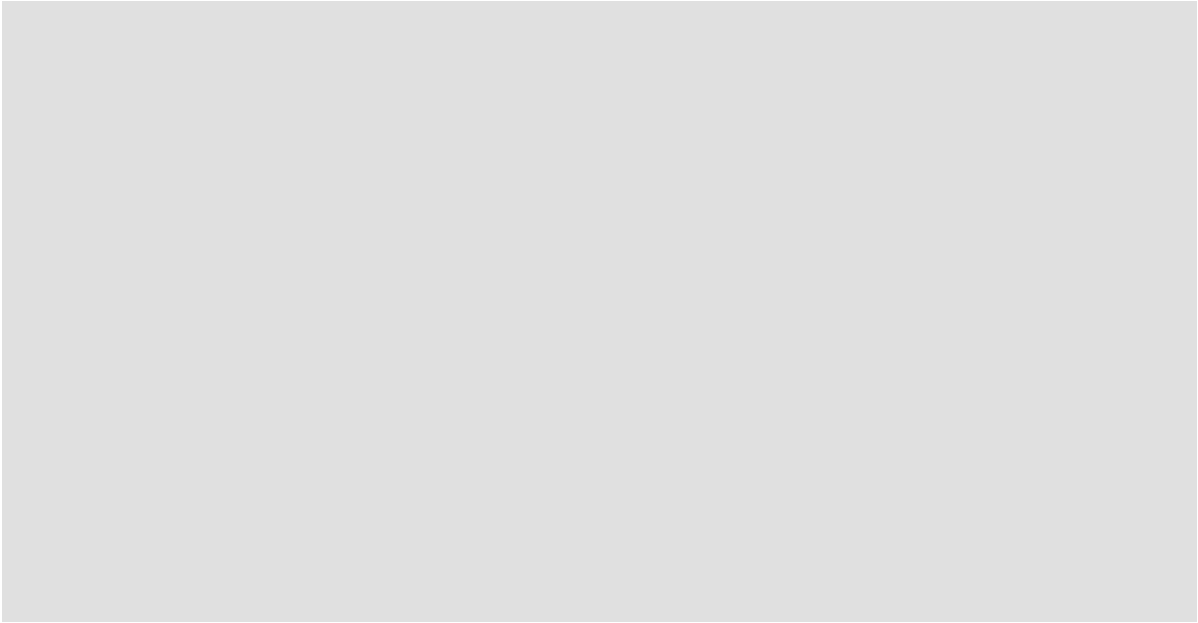


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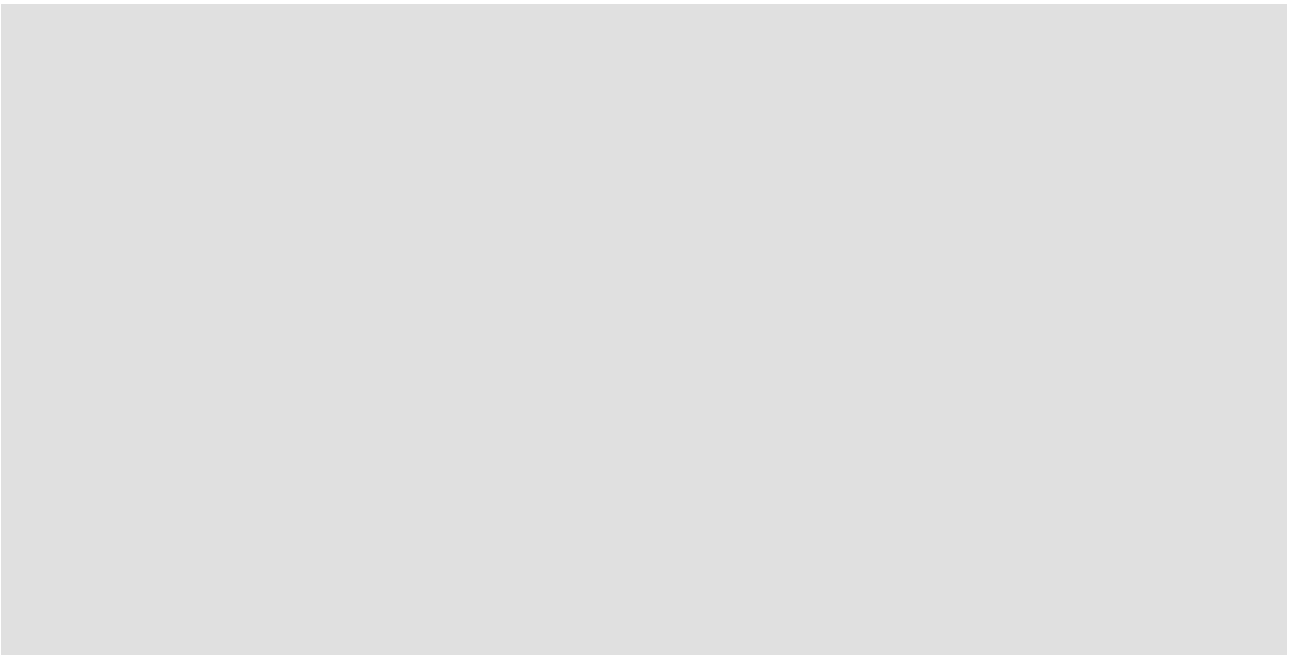
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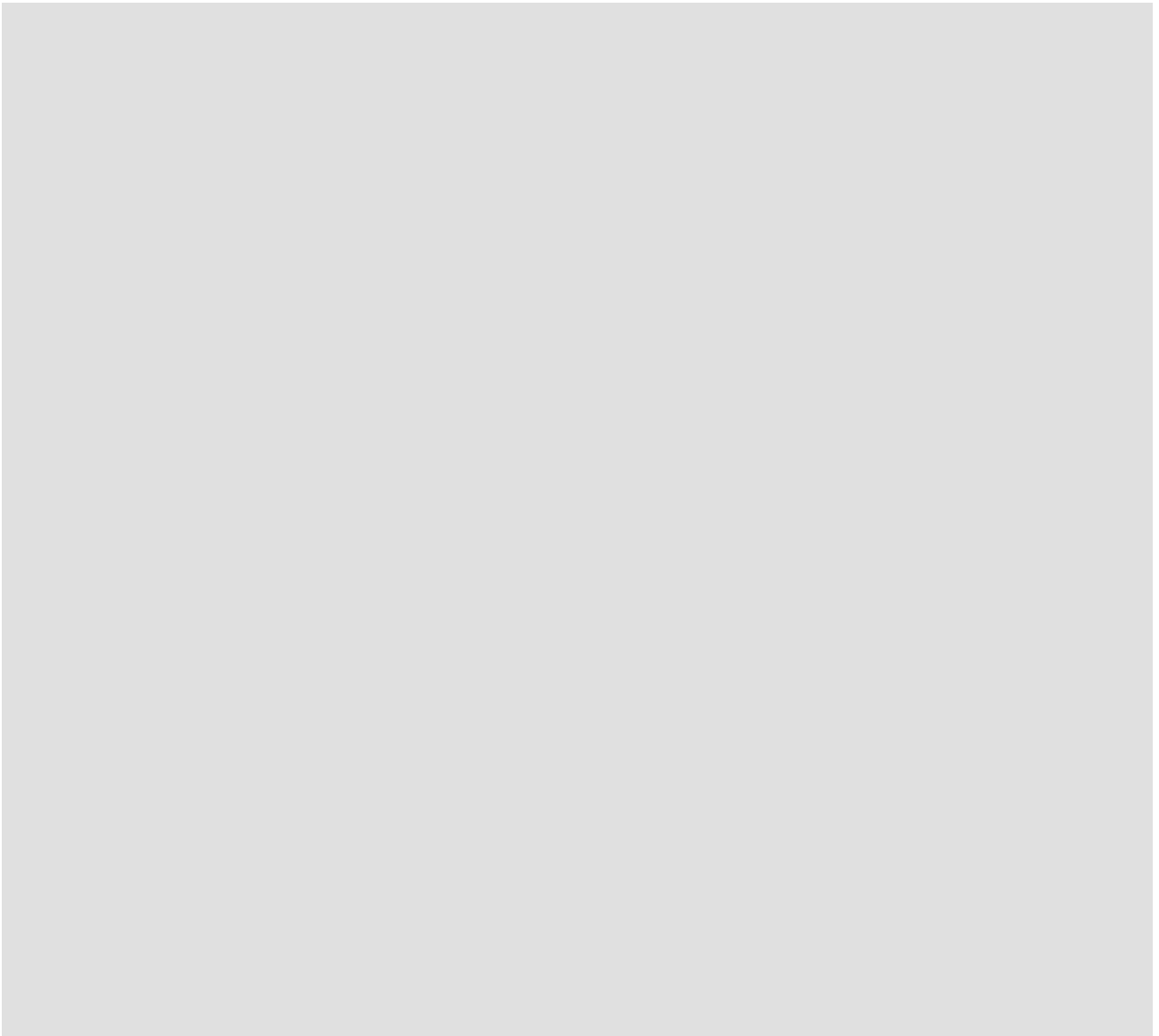
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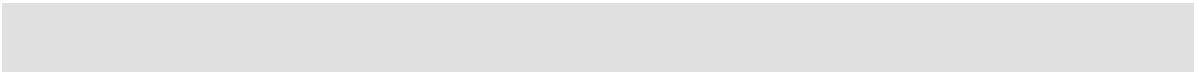
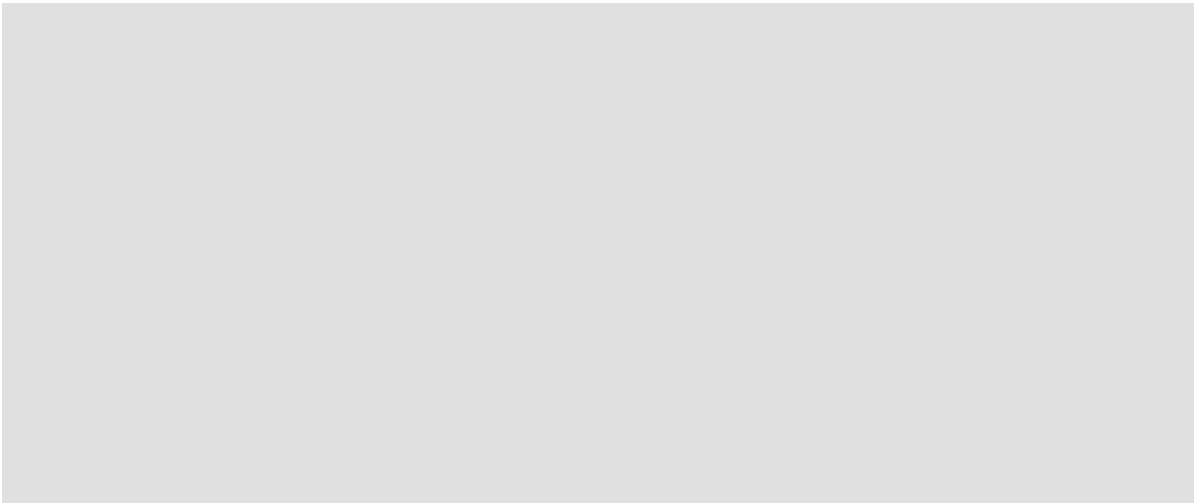
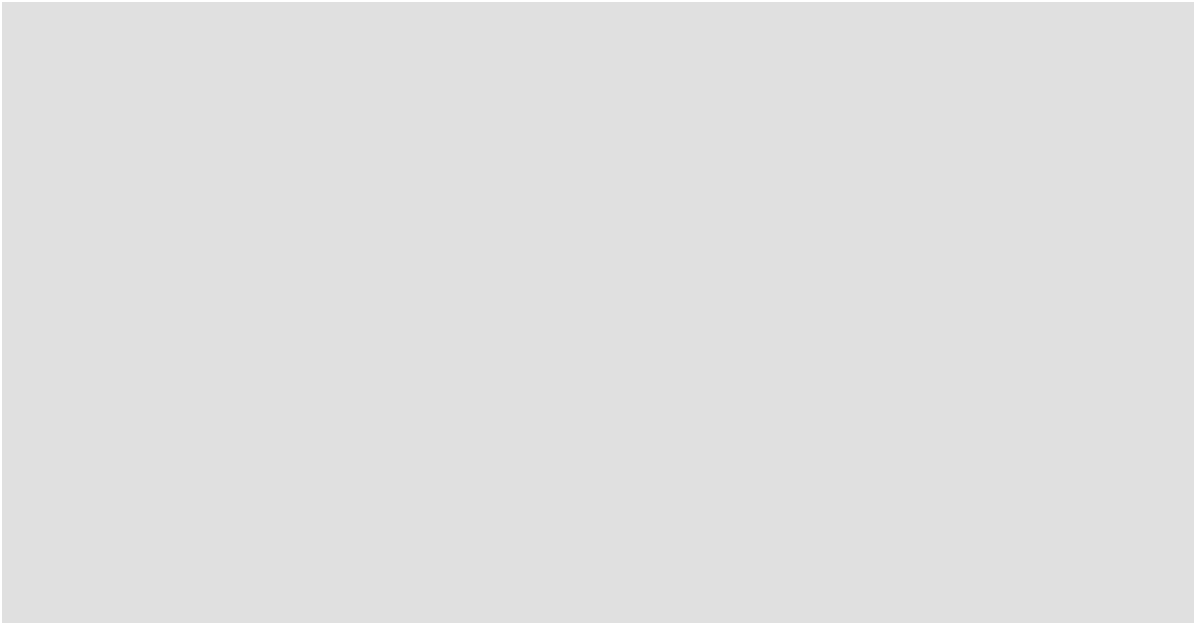








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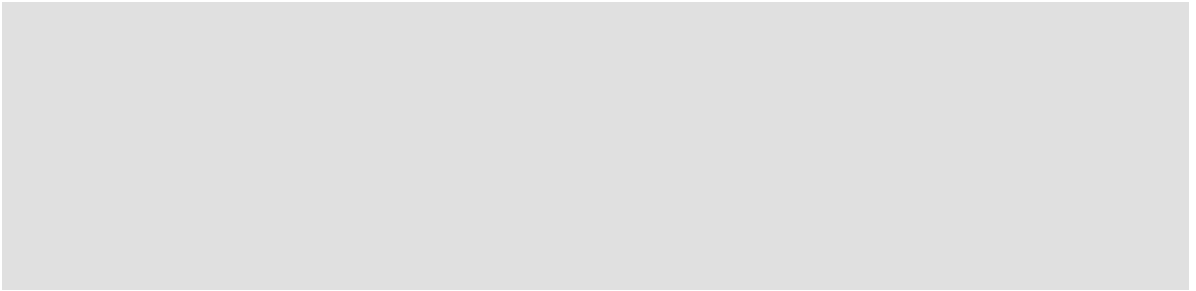
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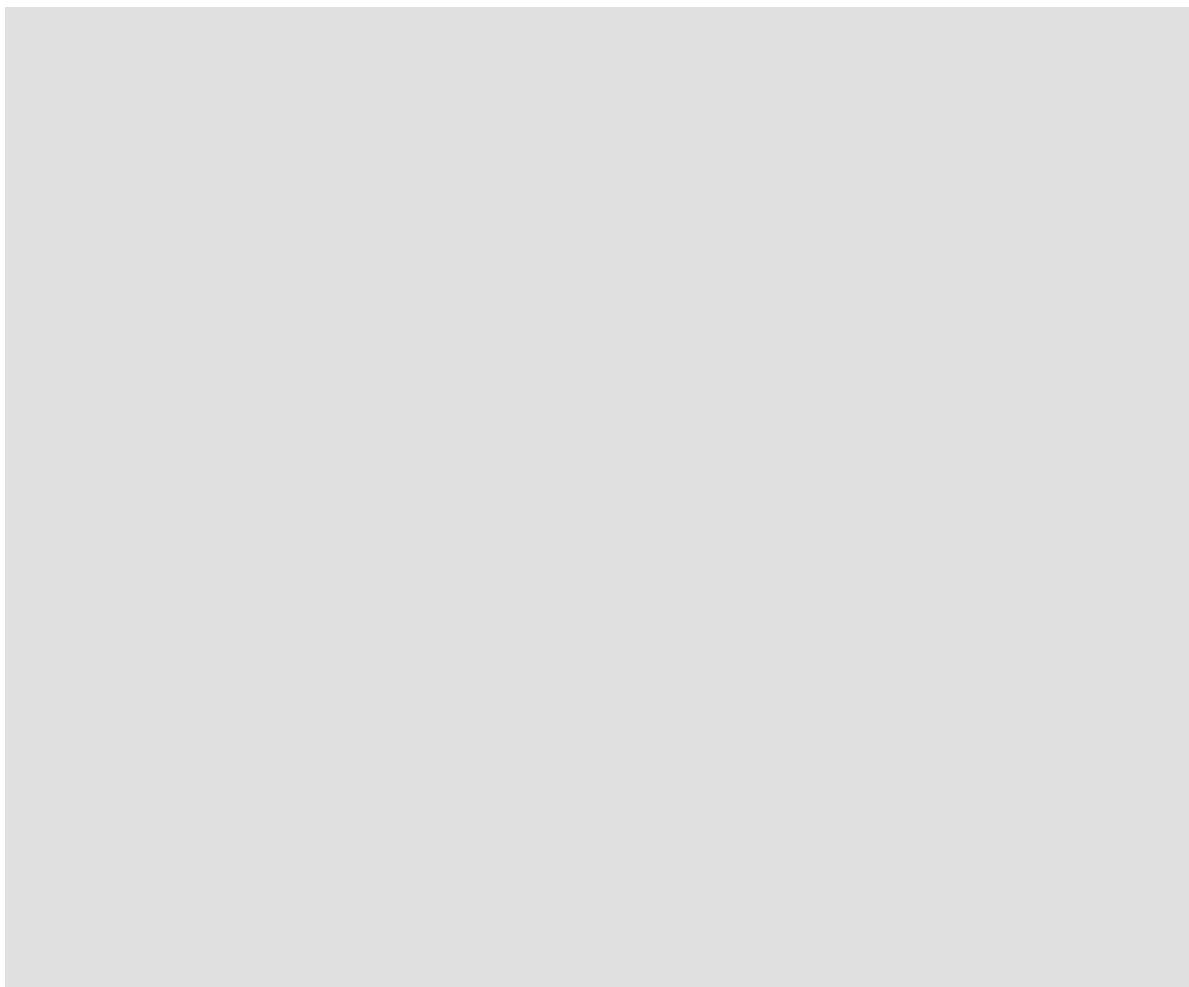
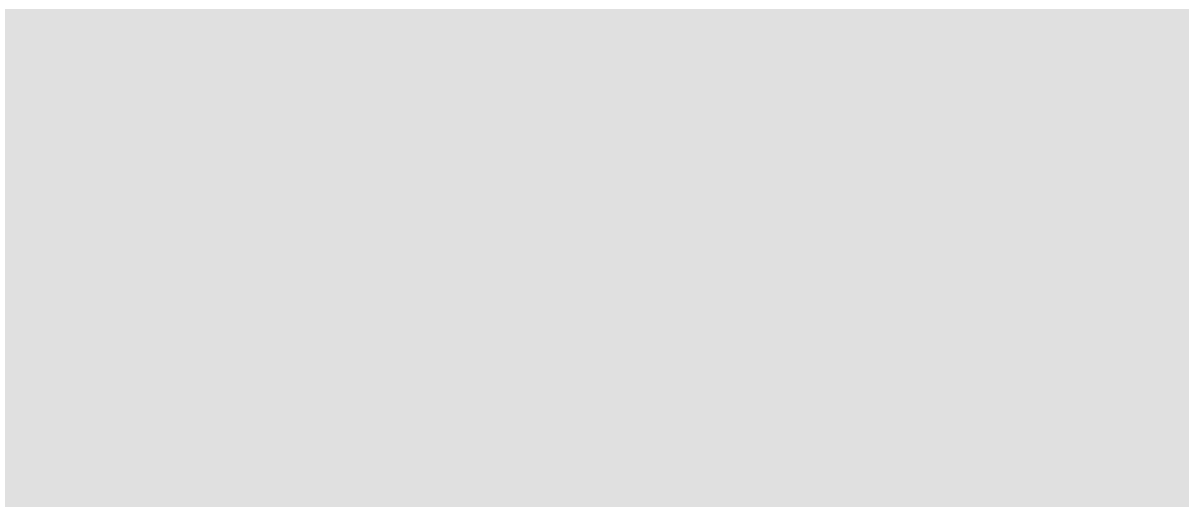






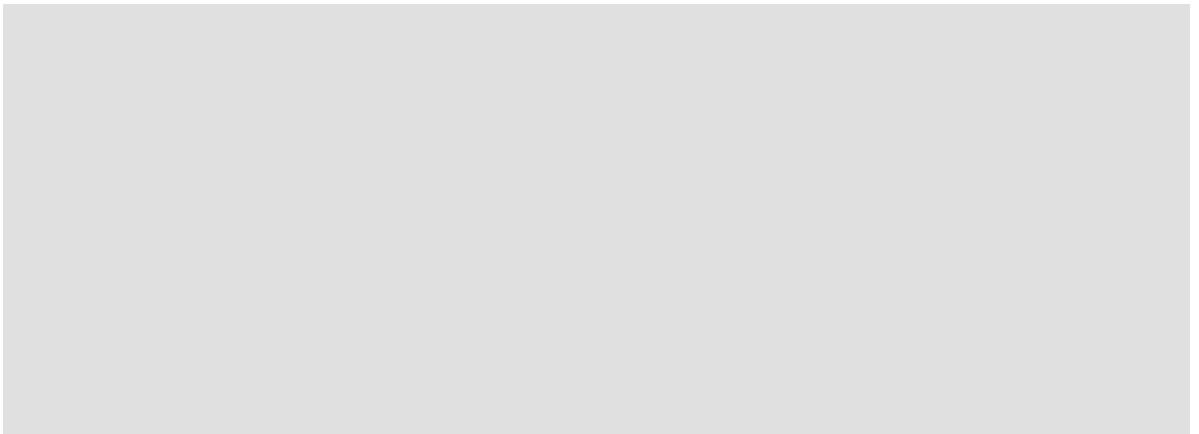
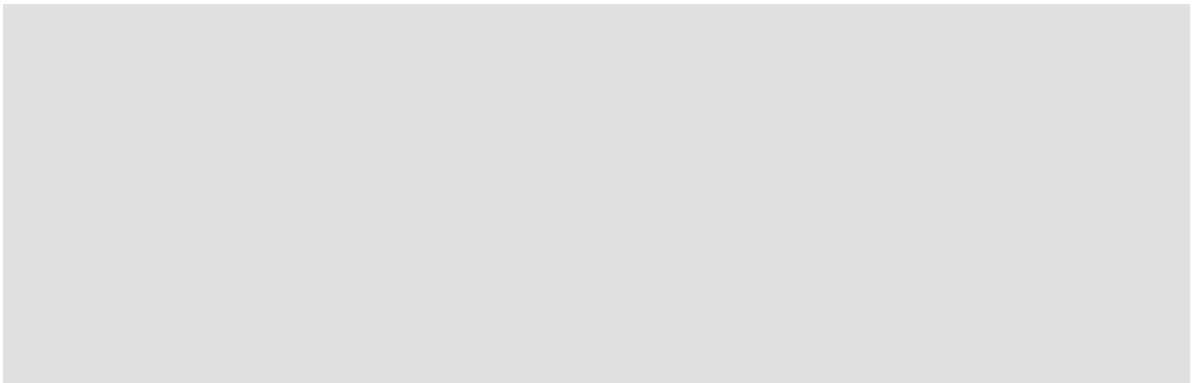


A F C I C H J J





•





h @  
9

% &2D(4 . I. \$ /.B0==, B B0A)(( % E

8r\$ f04 S D8s  
f( 9

b, 88 88  
à%gMèda`p)2().!`





% † 6A3:(0 A,1A,J,\*>B,`\*)4

% ~> I.M0I SA,/( \*C )(IB.=> b B ,)).D(,(B/.I I,))(B0F



/) c z % @0A06,0\* [ j|} )\*A.+3 )D0/,A(4 B  
% 666666666 j0 B ZZZ  
8,, L 8 88  
% 0 E  
% E % aA 1!c%Z @aa ' pAdÀ







C . U

FH J I C 8 \

8 HB

FB'

Av<E< j \$ \*\$( "

, ( 9 Z FH J H L . & 8 D N F I  
C L D 8 8 H H 8 F H O 8 'F L H  
N H .

Shi-ippe , artin

ZicH B/ivie E G B |y.!Q h H I T\$R11iI H  
G `3ee.!Q h H @R1\$i J B BC\ F ' G '  
( "#`Q4z| (`.!Q h H I 1\$R46i.  
|-/rian \ isser H ' E 'E h H. H 6R\$i  
BD H H.  
T-eg Shi-/n J ' .  
, ichae- , icH \ H B D H I H  
B H . J G !!|5( (e3 h H 1\$R41  
H @R2Wi.  
, arcR•an/ “n/pp

C 8 ' 8 D B N8 H 8 G H finu† ]/cuRentati/n Sr/•ect.  
%o <>; FH O F F <#\_€ L F ' F C  
F B8 L B DB.



l e# 1\_3`)QI

















Lc  
ObeQLc

% &\*)=0M(B,0\*F )+=C+. 20A0(I0/.B,/ . ; ,<=.B  
% H.1BA,?,0I.0 1/, '0/(0 2A( 3)20S0

G

9

% @A.S.6(\* B)0 ; ,<=> B 6(A0+\*.A((

%Y                    ]                    N    V

%Y                    5c G                    \$ m!#•n

5                    YY+    / G/,#

  b                    x    7

  ^

Q                    ^

  ^

+    / G/,#

% &2D(4 / B 8    8 .\*+=`',0\* ,B\*.I,\*('0)+( < BS.6

% &JA,\*(\*0 B/(I,/ (0F '\*. 1B./(\* 81B./.+8 2.)=0 20A06,'( +,M6.:. ;,<=,

V    c

5 ( ) ( A-E

	8	7	8
m^•nX	5	0	
		8 0	36,=0/ 8
	SS		
X		8 0	/0 36,=0/ 8SS

```
% ...2A,M/0/(0]
% u1I0/(*0 .J_4B=0/(0 8      8 / , ) .:=,)(0 8^ 8 ( 8• 8 ) BB.6,
V      c
```

5 ( ) ( A-n< 5 \* # \$" : " . / --at#

[illegible]

```
%          *, J3=4D(4
%          )60=, 0* p*. 2.=3'K0
[ONq Qa, LTM1
      [ONq Qa,

      8          L      TM G8
      m 8          8 5 Ž c n    % h0*/.0k

      8    L G8          % y0=(I /, G

      8    L    \ Y !8    % ...I/.M,0I /, \ ( 2A(J,B=40I !

[ONb<e L!c          % H>B.6(I 2. !c 1/, '0/(< A0`@đp€@c•`
```

```
^L                                     %  &J_4B=0/(0 :=.J,=C/>S 6/4F I0)4D,F :.6,
^  L
  L

J  +  MN                               % j0 2A,B(=C/>0 2,A,I0*A> +.I,/6/.< )*A.+(
Q
    8b    ] -
```



```
% ...2A,M/0/(0]
% 55555555
% ")=( 3+,1,*C *.=C+. .6(/ 2,A,I0*A +.I,/6/.< )*A.+(F *. 23)*C )D0/,A(<
```

5 ( ) ( A- { < 5 ( ( \$ # \$ S / unde†

%Z





8

[illegible]

L V V % ~0)\*. ) /3=4I(  
<r NfeL% % ...I0/CK,0I I,+)(I3I 6. % )(IB.=.B  
VL { ]c] <r Nfe}  
8 V L V8  
  
% -.6 V 4B=40\*)4 )2.).J.I (/60+),D(( ( +=,)))(;(+,D(( I0/  
%Y 23\*0I :A322(A.B,/(4 2. 1B3',/(`  
% -.6 V 2A()B,(B,0\* (I0/( )/, ', =, J3+B3F  
%Y , 1,\*0I B>'()=40\* \*A( D(;A>  
% @.6.J/>0 ).1B3' />0 (I0/, J363\* (I0\*C 2A,+\*('0)+( .6(/,+.B>< +.6 V  
  
<r NfeL% , 'ë 00 P0~n\*5, PM€ ~ 04'cbă'b',,, "0a`



rN fL!  
rN ffLc  
QfrQL!

L

LC

% U=.J,=C/,4s ).60AM( \* \*0+3?3` :0/0A,D(`

% @A()B, (B, 0\* /, ', =. .\*)' 0\*, :0/0A, D(<

[illegible]

8

L "0q

[ON 8 % - . = ( ' 0 ) \* B . 4 ' 0 0 +



Lc  
"Oq e,EQL\

^LW - 8 !8- X

8 L 5 [ON 5 !8 % @A()B,(B,0I ).)06/`` 4'0<+3  
8 L 5 !8  
8 L Y [ON 5 !8  
8 L [ON 8

**G** WW Lcs "Oq e,EQs YYXX % @0A0I0?0/(0 )=0B, /, 2A,B.

8 L Y 8  
8 L Y 8  
8 L Y 8

8 7 L 8 % H>'()=40I D0/\*A )\*A.+(  
f % @A,B(=C/,4 2.1(D(4 4'0<+(k  
m @k"\$...]õñ#@p % @A,B(=Q#&&8 !\$%]òñ h\$†,ß , \$†,ß 4

R

# \$ I# MN % &J/.B=40I I,))(B :0/0A,D(<

Q

^  
Lc

^LW - 8 !8- X % @A0.JA,130I 20A06,>//>0 ,A:3I0/\*> B I,))(B

B .# ] 8 8 /.\$ 8 8 ^

r 8 !8 { ^m n} % &M(BK,4 +=0\*+,k

m k 5 Ž 8 rN ff8 n

% "(= ( .M(BK,4F \*.  
^m nL %Y 2A06)\*,B=40I 4'0<+3 +,+ \*.'+3

^m nL8 8 % u/, '0 5 2.6'0A+(B,/(0

5  
8LLLLLLLLLLLLLLLLLLLLLLLLLLLLL8  
5





#. #

% LL y=4 3B0=('0/(4 2,A.=4 €NfePa,€ I.M/. (1I0/( \*C

7 m 8 { 10!}8 5 8 NfePa,8 n  
% LL j,2.I/`F '\*. 10 p\*. .20A,\* .A 82.6)\*,/.B+( 1/, '0/(4 2. 3I.=' ,/(`8  
% LL @.p\*.I3F 0)=( € € /0 J360\* .J\_4B=0/,F 2A()B,(B,0\*)4 !

xr Æf c<ra" ] wW ).□İ™ 2X& !ÂŒ...Đ

QdÄ Ä"€"h¢† €

% ...J06(\*0)CF '\*. 60<)\*B(\*0=C/. 4B=40\*)4 +,//,=.IF , /0 2A.)\*. ;,<=.I

x

% •0+3A)(4 B/0 D(+= t





%%%

%%%



```
%]          ]
%%SSS      LL  o,+.II0/*(A.B,/,4 ,B*.1,:A31+, ;3/+D((
G  $      $      $ MN
Q
      !      G
!      L {Z!}          % •,)K(A0/(0 +.)B0//.< ))>=+( /, 20A0I0//3`
G      L {ZG}
% !%L8€% { !      } { G      }%8€
% LL      !L7 { !      } { G      }7 2.1B.=40* (1J0M,*C 2A.J=0IF
% LL  0)=( +,M6,4 20A0I0//,4 /,S.6(*)4 B/3*A( .6(/,A/>S +,B>'0+
R
%]          ]
% b      ]          ! G
%
% @.6.J/,      F /.      6.J,B=40* I,+)(I,=C/.      )(IB.=.B (1 1/, '0/(4
%      G      ")=( 1/, '0/(0      G I0/CK0F '0I      )(IB.=.BF
% *. +.2(A30*)4 I0/CK0 )(IB.=.B H>B.6(* A013=C*,* /,
%
% @A(I0A]
%      L
% ù6 SZ      $ $      $      $ MI
%
%      X
%
%      L
%
%]          ]
%%SSS
G  $      $      $ MN
Q
      !L8 !8
      GL8 G8
      5      L8 \8
      !      G
!      L {Z !}          % LL •,)K(A0/(0 +.)B0//.< ))>=+( /, 20A0I0//3`
G      L {Z G}
m  {% G      } 5      { } ns
G      L { G      ]MA 1 ã$ rJ0D0 /(0
```

m 8 !8 0 8 G8 n ;; c

m 8 {!}8 €Y€ 8 {G}8 n ;; 5!

!

R

%]



%%SSS

G \$ \$ \$ D MN

Q ]

R

%]

% b ] ! { G} { }

%

% u)2.=C130\*)4 I/.:(I( ;3/+D(4I(F \*(2, 6=4 3I0/CK0/(4 +.=('0)\*B,

%,A:3I0/\* .B 6=4 )A,B/0/(4

% H>B==\$ 20AB>0 (\$.:H>M/\* .4 MB><(\$\* .4 2, { { (/(2, ] (

V c

H H D H I D : )Q5e4 “ )gl FBNO D B  
H (\*o\$ ( F \ [ [ H G .

5( ) ( A-;{< 0 M ( )\$' & \* ( !" (

%Z

% ^5

% †/,=(1 ( =()\*(/: (/;.AI,D(( . 6(A0+\*.A((

% @•u~“h†ju”] u1I0/0/> )\*A.+( Gl\ ( \g\ ;,<=, 8"frQ<f8

% †B\*.A p\*.:. )D0/,A(4 < • •

% u)2.=C130\*)4 ) 0:. A,1A0K0/(4

% ...2A,B=0/(0





V5r ^5e mcn ] -.=('0)\*B. (/60+)(A.B, //>S 8~\*A.+8  
V5r ^5e m!n ] 8d0+3?,4 )\*A.+,8 3+,1, //,4 B V5r ^5e







#\$ m0  
laf m0

m0n       $f(S) = \frac{1}{S} \cdot 64^2(S)^4 \cdot J = \frac{1}{S} \cdot B \cdot W^2 \cdot g(S)$   
m\n       $d(S) \leq (2A, B, 6) \cdot 32, W \cdot VX$   
m0S       $Q \leq 0, 3: 60 = 4W \cdot VX$

m!cn ~B.J.6/>0

5 5 5 y=4]

H.1BA,?,0I><+.6] c

•,1I0A I,))(B,] !!

~.60AM(I.0 I,))(B,

^=0I0/\* c] \$ •

^=0I0/\* !] c

^=0I0/\* G] c

^=0I0/\* \] Ggg

^=0I0/\* %] g\

^=0I0/\* g] Ggi!%%g

```
% ~.60AM(I.0 I,))(B,
% ^=0I0/* c] $ • uI4 Gc [ ^
% ^=0I0/* !] %! i d(2 ( 2A,B, 6.)*32,
```

8,,8uI4,,8 W+./ \*A.=C/,4 )3II,X 6=4 ).60AM(I.:. {xqQ} p\*. { Q Q Pmcn}8

N 5 Nf NO[  
N {xqQ} Nf NO[  
N r Nf NO[

n ;

```

      8 \L,,8,, {,
V} {!} {G},,88
R
% ^I3=4D(4]      SpKm+=`'n
%
% @,A,I0*A>]
% ! 5 SpK
% G 5 +=`'
% \ ‡ 2,A,I0*A>      W5 F + 2A(I0A3X
G  $      #      Q
      8      \ ,,8,, {,
V} {!} {G},,88
R
```

```

%
% @,A,I0*A>]
% ! 5 SpK
% G 5 +=`'
% \ 5      ‡ uI4 2A()B.0//.0 :=.J,=C/.< 20A0I0//.<

G  $      I#$ #G  $  Q
      8 \L,,8 {,          V} {!}  {G},,,88
R

% ^I3=4D(4 *(2,]      |SpKm+=`'n
%
% ~)>=+, ‡ p*. (I4 20A0I0//.<F B +.*.A.< 2A(B.6(*)4 1/, '0/(0
%
% @,A,I0*A>]
% ! 5 SpK
% G 5 +=`'
% \ ‡ 2,A,I0*A>      W5 F /,2A(I0AX

G  $      #      #G Q
      8      \ ,,8 {,          V} {!}  {G},,,88
R

% ^I3=4D(4 *(2,]      SpKm+=`'nw2,A,I0*A!F 2,A,I0*AGF      X
%

```







```
%
% !X ).SA,/40I +=`'( B er<f • ^ mn
% GX ).SA,/40I 1/, '0/(4 B er<f mn ()2.=C134 *. * M0 D0=. '())=0//>< (/60+)
% w0=. '())=0//>I (/60+).I 2.)=06/0< 1,2()( 4B=40*)4 er<f
%
% @•u~“h†ju”] ^*. /0 .K(J+, (( 2A.B0A+, 16A,B.I>)=(4F 2A.)*. :.=>< )+0=0*
```

```
G $ MN Q
% 9.+,=C/,4 ;3/+D(4
% B>1>B,0I,4 B /, ',=0 +,M6.< 2A.D063A>
% .2A060=0/(<] • ^
%
% b ] er<f
% L !
% • ^ L { } • ^
% L { }
% L { }
```

R

```
G $ #B MN Q
% b ] 7 er<f
% er<f /0 ).60AM(* 2A.J0=.B (( *.'0+
% j, ),I.I 60=0] 6.=M/, J>*C 20A0I0//.< E ) 2A,B(=C/>I (I0/0I
% @.=, :,0IF '*. E ,B*.I,*( '0)+( A,)2.1/,0* I,))(B>
% L !
% • ^
% { }
% { }Lc
```

R

```
G $ MN Q
% b ] er<f "f• €frNbf ) 2A.J0=,I(€
% ,A:3I0/*> ) 2A.J0=,I( 6.=M/> J>*C 1, +=`'0/> B .6(/,A/>0 +,B>' +( €€
% L ! •L8 G8 L8 \8
% • ^
% { }

% 8QfEbPW X] { }L {Z }€€

% { }L { }Y!
8 • ^ m {Z }nL,,8 {•},,€€€€
8 m {Z }nL,,8 { },,€€€€
```

R

```
G $ I#$ MN Q
% b ] er<f "f•
% H.1BA,?,0* f""Lc 0)=( <)=( 3M0M >#* ' .A.)*B>.< (M03,=6+! àμ!•ß % e^*
```

L8,, { { • ^ }m { }n}€ € % ~.SA,/40I B 6B, p\*,2,F  
•L { } %Y .).J0//. ) 2A.J0=,I( B +,B>'+,S  
ö"ö /Yd ^2m%8 {•}8 L^Meq,X8}8(Bs 5S%f Ñ0qadLcšcöä'•dšb#ä@  
#s

m { } L c n ; ; !s  
% ] p\*. (/60+) )..\*B0\*)\*B3`?(< +=`'3  
L8,, { { }m { }n}8  
8 { }8  
cs

R

G \$ D#T MN Q

```
% LL
% LL ~D0/,A(< I./*(A.B,/((A( 3)*,/.B+( b E JA0=+, 3)*A.<)*B R,,,/0/((
% LL o,23)+,0*)(A+,+ 2A( 1,23)+0A)()*0I> W)I A/(M0X
% LL
% LL j.B>0A6()*A(J3*(B> N V WG c%A(=( 2.1M0XA,B*..2A060=4`*
% LL ( 3)*,/,B=(B,`* b E /.)(*0=(F ( /0 /3M6,`*)(AB p*.IA)D0/,A((
% LL j.F ./AB) A0?0 2.=010/

% a A A 7 ^ Peb PxN G
% x ] 777 B V
%
% A 5 ^ < , € 5 WNPxNX
%YA)I A ] V $
%
% uj~d†9æwuæ
% 5555555
```



• 5 - "f<0ff"-  
5 r< "f<0ff"

```
#. G m 8 {r[a 0e}8 L 8      8 ns
%%
% ")=( 3)*A.<)*B. 2A(I./*(A.B,/.F *. 2A,B(=C/. 0:. . *+=`',0*
%
```

```
,Q"!% L€          $ L€
,Q"!% L€ €
% &+./','/(4
  a"!cL€          ^ €
  a"!L€           €
% dp:(
EONQL8      8
[feaf"L8      8
feQ [feaf"L8      8
N L8      8
```

B \$# # # MN

Q

8 ,Q"c!8

8 ,Q"cG8

8 ,Q"c\8

8 ,Q"!c8

8 ,Q"!!8

8 ,Q"!G!8

8 ,Q"!! 8

8 ,Q"!\8

5 8 ,Q"!% 8

5 8 ea •f8

8 ,Q"!% 8

8 EONQ8

% H)0 M(A/>I KA(;\*.I WJ.=00 '(\*,J0=C/>IX

R

3 # \$# \$ MN

Q

B .# # . # % ~'(\*>B,0I .6/3 )\*A.+3 1, A,1

{

m Z 8 8 n % @3)\*,4 )\*A.+,k  
% o/, '(\* /, '(/,0\*)4 /.B>< ,J1,D

8 N 8 % H)\*,B=40I 6B, \*p: ,

8 N 8

% @000a # # 1!cPqc•iÓcP~="t ]òãaaaa`AS€









% H0A)(4 ) 3+.A.'0//>I (I0/0I  
3. MN Q







] 5€ Q €

[ ^ W X < • •F GCC%  
N ] b F  
q ^] e 5{ s 7 }5

j0 \*0A2(\*)4k  
- .6 2A(=.M0/(4] 20A0S.6 + +.63 8% % % , € % % %8  
@A(I0A B>B.6,] 8] 5€ €8  
u)2.=C1.B,/(0] HB06(\*0 /,1B,/(0 )D0/,A(4 J01 ,A:3I0/\* .B  
u=( 20A0<6(\*0 + 8> • 8 B +./D0 )D0/,A(4

&J0)20'0 u6 ` μsM8> ö ò d£ fAñ 0° ö " \x %Y0đ£ "# s SY9 wf-ý `1 /(0FJ1 ö Ö ' J:



```
y.2.=/( *0=C/>0 20A0I0//>0 )A06>  
  xr<<f" a"r[f  
    ")=( 1,6,/ ;,<= 6=4 1,2() (F
```

% @.=4 60)4\*('/.:. 2A06)\*,B=0/(4 x ,6A0), A,160=0/> \*. '+.<



G WW V L cs V { } s VYY XX

VL { fV m Vn}  
WW L c s { } s YY XX

L { a m n}  
m V8 { }8 LL V8 { V}8 n

a m n % &\*I0/40I )A,B/0/(0  
m

L {e0 q x}  
 5  
 L,W " "{ !,m "n"} "X  
 L {% m n}  
 G WW L c s { } s YY XX  
 m { m { }n]L} n % ")=( 2A()B.0/ | /0 1,2(),/  
 L { m { }n}  
 m {% m n}nL { }  
 WW \$ L s \$ { } s \$ YY XX  
 m { m {\$ }n]L} n ;;  
 m €V€ { m {\$ }n} LL €V€ { } n ;;  
 m {\$ }nI9 Wc"ß

% ^\*, , ;3/+D(4 .2()),/, A òrđ@` X

 $\% \wedge^*$ 

! 1 2 \$ 4 # 5 ! © — è H



G WW L c s s YY XX

L!  
L {e0 q x} €,,VGc€  
LW { m { }n} X  
L {e0 q x}  
WW L c s {% m n} s YY XX  
L { m { }n] { }  
m {% } 5 { { } n }  
L8 { }8  
5 8 { }8  
WW L { } Y {% } XX  
L8 { m { }n}8  
5 { }  
WW L { } Y {% } XX

#

Y

c

}

XXXV q, p ã.....% Ð



%Y ) . \*A(D, \*0=C/>I( . \*B0\*, I( ( 2.6, B=0/(0I /036, ' />S 2A.B0A.+  
5

8 { }8 "  
8 { }8 8 { m { }n}8 { }

G



% •3/+D(4 6=4 1,2.=/0/(4 M3A/,=, \*A, ))(A.B+(  
\$ # . II# MN Q

80a€Ñ`Ap~†0

m

$$\begin{aligned} & m \in V \in \{ \quad \quad \quad \} \quad \quad \quad \hat{m} \{ \quad \quad \quad \} n]c]G\} \quad \textcolor{blue}{L} \textcolor{blue}{L} \in V s s \in \textcolor{blue}{n} \quad \textcolor{red}{;}; \\ & \quad \quad \quad \hat{m} \{ \quad \quad \quad \} n \\ G \bullet \text{à} \text{é} q \sim \textcolor{gray}{m} \quad \textcolor{gray}{n} \textcolor{gray}{n} \textcolor{gray}{n} \} \quad \textcolor{gray}{n} \textcolor{gray}{X} \quad \quad \quad \hat{\textcolor{gray}{m}} \textcolor{gray}{n} \textcolor{gray}{n} \textcolor{gray}{n} \} \quad \textcolor{gray}{n} \textcolor{gray}{X} \end{aligned}$$



SS  
#



G

R

```
% y=4 +,M6... (I0/( B      ]  
%      @0A0I0?,0I (I4 B      •
```

% o,B()),/(0 V  
% @.B\*.A40\*)4 6. \*0S 2.AF 2.+, /0 .J/,A3M(\*)4 /.B.0  
% V  
# 3 3 \$ # MN Q  
m {% m n} 5 c n `` c  
5  
5  
5 7  
5  
5  
sÝ



m {% m n}nL { }  
m {% m n}nL { 7 }€ € { }€ Or€  
% &A(:(/,=C/>< Or ‡ 1,2()C 6.I0//.:. (I0/(.)/.B/.< 1./>  
GL W V { m%n}X  
WqV ò m {% =€ € { m n}nL KabQd" DG}  
b>¶% B!'>° m WqV ±Ou² m n}nL { I 7 }€ € {P ò G}€ 0000 5 Id'€@q€±ð)aß  
% &\*B0\*/ ,4 )\*.A./ ,6A0), p=0+\*A.//.< 2.'\*> WB.1I.M/. ;(+\*(B/,4X  
% H.1I.M/.) \*C (:/.A(A.B,\*C  
5  
G GL W V { mgn}X  
\$ #

n à@#@00afD ð1gää0006±00æcÖámSB öð 00mVU"•òăwŃ "'0Y9ß n WtX&ß à5eX&ß

m {% m n}nL { }€ € { G}

SS

< X % o,2()C 2.'\*.B.:. )0AB0A,  
% &J)=3M(B,0I>< 6.I0/ WJ01 )(IB.=.B :A322.B.< 2.6)\*,/.B+(X  
" 'aaaaaaaa` p,aaaaaaaaaW000\$aaVaaaaaaWpaw000p"000p0W}aB { Pa000aa0€@q€0- 0ãfaaaaaa



L {q x }

Ž

m {V % m n} 5 c n

L {e0 q x}

L {q x } LW { m n} { m n} X

% &J/.B=0/(0 )2()+, • 7 W†6A0), ( (I0/,X

Ž

m {V • 7 m n} 5

C

R

% ~,I.,/,=(1 20A06,'( .\*B0\*,  
 % HB.6 4B=40\*)4 )2()+.I .  
 %

#\$ . # # MN Q

m { % • m n} 5 c n `` c  
 Z •  
 V • 7 •  
 m { % • m n} 5 c n  
 • 7 LW { • 7 m n} { • m n} X  
 • m n

C

R

% % % @A(I0/0/(0 +./+A0\*/.:. B>B.6, ;3/+D(< % % %

% H>B.6 /, p+A,/ '(\*,J0=C/>S (1B0)\*/>S 2,A  
 #3 \$ 3 MN Q

€u1B0)\*/>0 2,A> )0\*( €  
 • 7 G g \c

m { % m n} 5 c n

€u1B0)\*/,4 D02C 32A,B=0/(4 €  
 G g \c gg

-• m { % m n} 5 c n

€u1B0)\*/>0 .JA,\*/>0 2,A> €  
 G g gg



$$\bullet \quad L_V \{ \cdot \} \{ \cdot \} \wedge m \{ \cdot \} n \}$$

")=( %! 5D0=.0 '()=.F .:A,/'0/(0 3)\*,/,B=(B,0\*)4 B 6,/.0 1/, '0/(0

```
% @.=C1.B,*0=C)+,4 20A0I0//,4 .+A3M0/(4  xr<<f" a"r[f
. 0# . I  #MN Q
  G ] { xr<<f" a"r[f]L} ^    % j3M0/ M3A/,= *A,))(A.B+(k
$ #
    m Z 5 { xr<<f" a"r[f} n
```

R

```
% u?0I 3+,1,//>0 2.=C1.B,*0=0I ,A:3I0/*>
#      I MN Q
```



**G**

```
% UA, ; ( '0)+( < 6, I2 ; , <=,
% dA, )) (A.B+, B>2.=/0/(4
```

```

%%%%%%%%%%
% @A(I0A B>L A iD/0,@A4 %

```

>      •  
 L L L L L L L L L L

$$\dots) = .B(4$$

```
H0A)(4 E      G cg  (= \ cc W      55      X
H0A)(4 E      2.660AM(B, `?, 4 I, ))(B>  @.660AM(B, 0I>0
```







% u1B0)\* />< A.6(\*0=C5 B=.M0//>< 2.\*.I.+

x[cccc

H+=`'(\*0 )=063`?(0 )\*A.+(F 1,I0/(B 31=> (60/\*(;(+,\* .A.B B .\*/.K0/(4S]

% u1B0)\* />0 31=> 6.I0//.:. (I0/(

ecccc m L8 8n s

eccccG m L8 8n s

% u1B0)\* />0 31=> ,6A0),

rcccc m L8#! !%!\G !t18n s

% x[cccc

ecccc5 ecccG s

% ercccc #! !%!\G !t1

eccccG5 rcccc s

% u1B0)\* /.0 (I45 B=.M0//>< ,6A0)

ercccc #! !%!\G !t1

% u1B0)\* />< A.6(\*0=C5 B=.M0//>< 2.\*.I.+

x[cccc

(10', / (0

[illegible]

R

KJ\*!Ww # TMN Q

8@.( )+ xrQQ" /, 7 8  
7 5 7 8 xrQQ"8 Oba Nf  
% @.'\*( +,M6,4 )\*A,/, (I00\*00š 81 Xwd&i0Aq ¯gQ£p?5, ħ



```
m      !# LL !tG !#i ns
      xrQQ" p*. 2A.)*A,/) *B. " [!t!i,,s j0 1,2A,K(B,0*)4
m      i 5 GG% ns
      xrQQ" p*. I/..:,6A0)/.0 (= ( 1,A010AB(A.B,/.0 2A.)*A,/) *B.,,s j0
1,2A,K(B,0*)4
m      i 5 Gcc n ;; m      i 5 Gc! ns      Nr[e [Ž ^ 8 xrQQ"8
```





L % @0A06,\*C 7 .2D(( 5 ( )2()+, b"N  
L % o,23)\*(\*C ).SA,/0//>0 +.I,/6> B +,'0)\*B0 .2D(( ,A:3I0/\*,





#  
R  
  
G MN  
Q  
G ] /C 8 0xar"P8 ^s \$ #

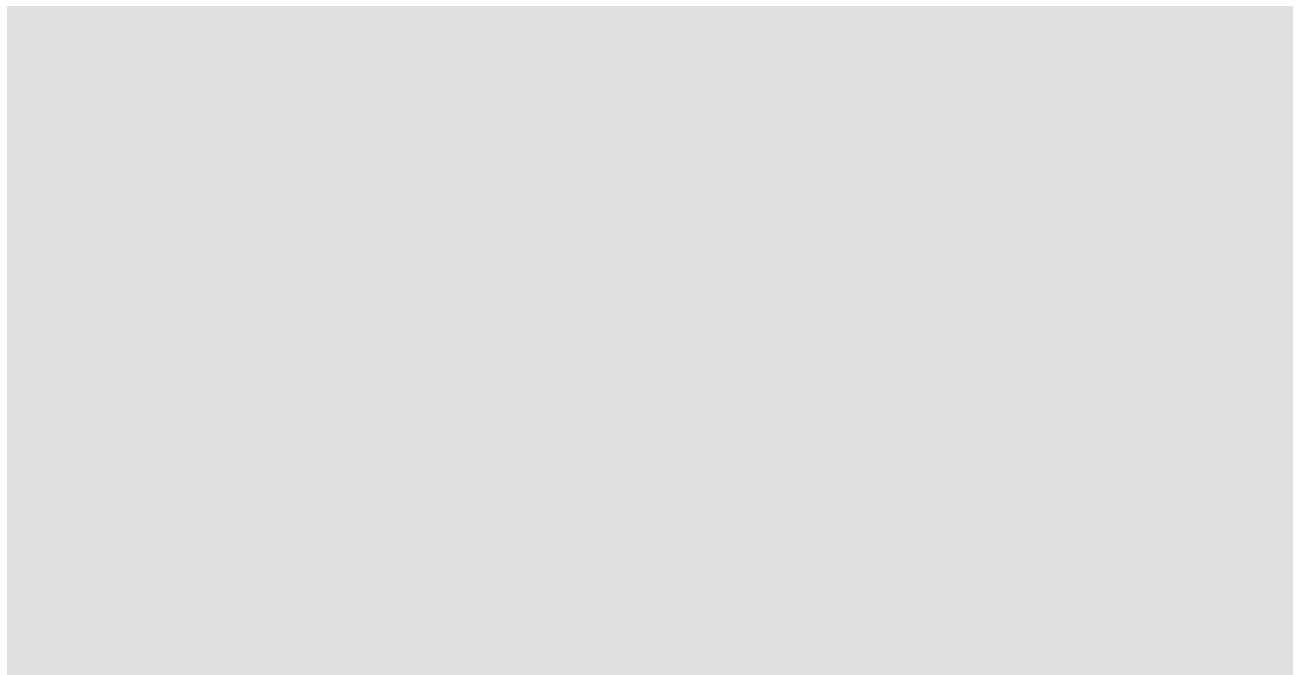
"f×N•

$\hat{z} \bullet X'$	L88ss
ze X	L8 5 8ss
X	L88ss

m 5\$ {Q } ns



% @A.B0A40I ).16,/(0 0)=( -6)b,, %D





```
% u1B0)*/>0 J, :([]
% 5555555555
% X H (60,=0 I> S.*(I ())+='(*C - ( +pK JA,310A,
% X ")=( 2.=C1.B,*0=C /,S.6(*)4 1, +.I2C`*0A.I B g 3*A,F
```



% j,2A(I0A] \*,+.0 2A,B(=. ]  
% Eb L8 8F "f"efNL8 8F • { }L8qQ[ qQ!#8F  
% • { }L8ccŠE5ccPfrC 8F er<fL8™•8F •<N e"L8 !\t%™ 8

G



% @A.B0A40I p\*. 20A06 ^ F B.1I.M/.F 0)\*C K, /)  
Q " bNN xf"[feaL- Er["bx Qf a Q " z  
8,, 8 € € z 7• €{ !G}€ z 5 f mc5tnY -  
8@A.B0A+, 6()+.B.:. 2A.)\*A, /)\*B, A,160=, Jp+,2 ,,  
<Obea x0 ea Q " bNN xf"[fea™ 8  
m

```
Er["bx Qf a Q " • !c Er["bx Qf a Q " • !! ;;;
Er["bx Qf a Q " • t Er["bx Qf a Q " • !c ;;;
Er["bx Qf a Q " • i Er["bx Qf a Q " • t
```

```
5 8,, ...6,=0/(0 )*,A>S 0M06/0B/>S Jp+,2.B] Er["bx Qf a Q " • i8 ;;;
5 Er["bx Qf a Q " • i
```

```
;S L L 1 ;;;
```

```
% "M06/0B/.F 20A01,2()C /.B>I( i
```

```
8@0A01,2()C 0M06/0B/>S Jp+,2.B] "
```

```
Er["bx Qf a Q " • m!5ln 5 Er["bx Qf a Q " • mG5in8 ;;;
Er["bx Qf a Q " • l Er["bx Qf a Q " • i ;;;
Er["bx Qf a Q " • # Er["bx Qf a Q " • l ;;;
Er["bx Qf a Q " • g Er["bx Qf a Q " • # ;;;
Er["bx Qf a Q " • % Er["bx Qf a Q " • g ;;;
Er["bx Qf a Q " • \ Er["bx Qf a Q " • % ;;;
Er["bx Qf a Q " • G Er["bx Qf a Q " • \ ;;;
Er["bx Qf a Q " • ! Er["bx Qf a Q " • G ;;;
Er["bx Qf a Q " • c Er["bx Qf a Q " • ! ;;;
```

```
b[[f L
```





5 m n ~.60AM(I.0 ;,<=,  
5 m n &J/.B=0/(0 1,2() ( B  
")=( (I4 ;,<=, /0 3+,1,/.F \*. 2. 3I.=' ,/(` ()2.=C130\*)4 ;,<=  
B(6, W {0 Aā×tuŃ•0 ù ‡Ń - 5D& 6&

5V f.N.< /.-0F, B0F)"†

P6 ãF.N;&



```

[QN x"0<xa x"f 5 ...)*/,/B=(B,0* B )*A.+0 2A0;(+ ) 2A(:=,K0/(4
@. 3I.='',/(`]
      /05      ]  "8,,,m,,, mc!s\%o "n,,8 W)/((< DB0*X
      ]  "8,,,m,,, mc!s\! "n,,8 W+A,)/>< DB0*X
[QN x"0<xa x0 a 5 ...)*/,/B=(B,0* B )*A.+0 )3;;(+ ) *A.+(
      2A(:=,K0/(4
@. 3I.='',/(`]
      5      ]  "8,,,m,,, mcc "n,,8
      ]  W)JA,)>B,0* DB0* ( B>B.6(* X
      ]  "8,,,m,,, mcc "n%,8
      ]  W)JA,)>B,0* DB0* ( B>B.6(* %X
[Qx ‡ ...)*/./B+, 23*( 2. 3I.='',/(` 6=4 .2D(< 5 ( 5
...I.='',/(0 ‡ 6.I,K/44 6(A0+*.A(4
[Q ‡ ...)*/./B+, 2. 3I.='',/(` (I0/( ;,<=, 6=4 .2D(< 5 ( 5
...I.='',/(0

```

8

R



Q

5 Lc  
L8a"bf8  
G {af a} 8 {[Q <0Qf}8 0 8x"ff8  
\$ #  
{af a} 5\$ 8 7 8  
vá•€qU!XW Mòñđ2 aaaaaaaaa-À  
7 Lc

[Q <0QfL8x"ff8  
{af a} ! 5 Ž !

$$\{x'' \in a\}8 \quad \quad \quad \}f8$$

$\{af \ a\}$        $- \{f\}!$

8 {a f a}8 !8}f}

[illegible]

¢ d-a a p& d a j e (T a u d& d a a a a a a`



[QN x"0<xa x0 aL {[QN x"0<xa x0 a]L8,,,m,,, mcc ,,,n%8}

[QN x"0<xa x"fL {[QN x"0<xa x"f]L8,,,m,,, mc!s\% ,,,n8} % §10A> 5 )(/(<  
[QN x"0<xa x0 aL {[QN x"0<xa x0 a]L8,,,m,,, mcc ,,,n 8}

%%%%%%%%%

%

% ^ V ^ .2A060=40\* I,+)(I,=C/.0 +.=( '0)\*B. 1,2()0< ()\*.A((  
5 V ^Lgc

%%%%%%%%%

%

% ^ V .2A060=40\* I,+)(I,=C/.0 +.=( '0)\*B. 1,2()( ).J>\*( <  
5 V Lt

%

%

%%%%%%%%%

%

% .2A060=40\* '())=. 1,2()0<F B>B.6(I>S /, p+A,/F

%Y ()\*.A(( +.I,/6

% ^

5

L

(1I0/0/(4

HB060/(0

LLLLLLLLLLLLL





@A(I0A>  
LLLLLLLL

-F "Œ€m\nc,•c 5=6 À

] 8""m"" mcc ""n%8  
wI0/40\* DB0\* ( B>B.6(\* /, p+A,/ %X

@A(I0',/(0]  
[QN x"0<xa x"f | x0 a \*. =C+.

[Qx ‡ ...)\*/,B=(B,0\* 23\*C 2. 3I.='/(` 6=4 .2D(< 5 ( 5  
@. 3I.='/(` ‡ 6.I,K/44 6(A0+\*.A(4  
[Q ‡ ...)\*/,B=(B,0\* ;,<= 2. 3I.='/(` 6=4 .2D(< 5 ( 5  
@. 3I.='/(`

~3?0)\*B3`\* \*A( 20A0I0//>0F .2A060=0//>0 B ;,<=0 F +.\*.A>0

% @.( )+ 1B3+.B.< +,A\*>]

^

% ž g  
% !  
% c  
% 666 I0\*+, 8 8 B 20AB.I 2.=0 W)JA.K0/,X

Q % ~JA, )>B, 0I 20AB3` )\*A.+3F +,+ B>K0  
!

L { !™™™5 }  
Qđ ¢]ŕAđA'c# "ăc"6W)JA.K0/,X









```
GL W      8      L [s      G      8 z      X % )A06/00 )3II> +B,6A,* .B
L W      8      L [s      Ž      W      GX8 z      X % -B,6A,* />< +.A0/C L
                                     % .J?0I3 .*+=./0/(`

R 8      8      % u1 ;,<=, 6, />S

% LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL %
L W      Xs      L k      % yB, B.1BA,?,0I>S (1 ;3/+D((Z
L W      X

8h( )=. p=0I0/* .B 6, />S B „88      8„8 L      8
8~A06/00 ,A(;I0*( '0)+.0 W3)A06/0//.0X L      8
8&J?00 .*+=./0/(0 L      8

% LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL %

V

% ^*.* )D0/,A(< I.M0* J>*C 32A.?0/F /. /0 1, )'0* 3I0/CK0/(4 *. ' /.)*(

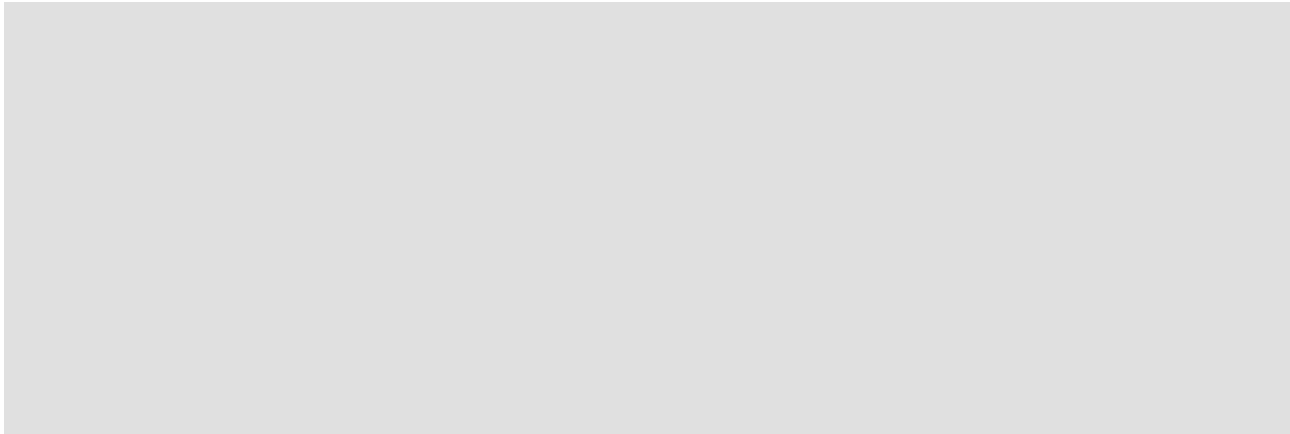
% YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY %
% @A(I0A ;,<=, 6, />S W      !      X]

% !i \g
% !t c
% !i ii
% !i t!
% !i #‰

%

!

% -.=('0)*B. p=0I0/* .B 6, />S B 8      !      8 L g
% ~A06/00 ,A(;I0*( '0)+.0 W)A06/00X L !i lg#cccccc
% &J?00 .*+=./0/(0 L      G\g\\icg‰
```



% @A(/(I,0\* W/0 .J41,\*0=C/.X ).SA,/0//.0 (I4 ;,<=,F +,+ ,A:3I0/\* +.I,/6/.<  
%Y )\*A.+(  
m 5 8 !8 n

L !

L V % @. 3I.=' ,/(` (I4

```
% 0,2(>)B,0I 1,:.=.B+( ;,<=, B ;,<=
    ,Q"!
    ,Q"G
    ,Q"\
5      ,Q"%
```



$f_E''$   $8m \cdot \text{en8}$   
 $Q$   $8m \cdot \text{en8}$   
% feQ < x

```

      L      % U=.J,=C/,4 20A0I0//,4F ()2.=C130*)4 /0)+.=C+(I( ;3/+D(4I(
f e0 exbaLtc % &*)3*)*B(0 2.=C1.B,*0=C)+.:. BB.6, W.K(J+,X ~.M0* J>*C =(
      %Y /0 J>*C +A(*('0)+.<

```

```
% LLLLLLLLLLLL d0:( A,1I0*+( LLLLLLLLLLLLLL %

```

```

a ,      L8 a,8
e ,      L8 , er<f8
^  V,      L8 , •ear 8
^      ,      L8 , •e0x 8
      ,      L8 , e arNNra 0e8
Q ,      L8 , Qf [" xa 0e8
0 ,      L8 , 0xa 0e 8
      ,      L8 , Nf 8
f ,      L8 , fef "0e<fea8
r ,0e<fea8

```

5 8 „8

„88

% y.J,B=0/(0F B)0:6\*6y.J,B4(9

% &JA,\*( \*0 B/(I,/(0F '\* . ).16,//.< )\*A,/(D0 .J>'/. \*A0J30\*)4 \*. /+,4 A3' /,4  
%Y /,)\*A.<+, ) 2.I.?C` \*0+)\*.B.:. A06,+\*.A,  
% d0I /0 I0/00F /,I/.. .J=0:',0\*)4 /,2()),/(0 ()S.6/(+, ) /3=4 (=( 6,M0  
%Y A06,+\*(A.B,/(4 23)\*.:. K,J= ./,  
% &)/.B/>I /06.)\*, \*+.I )D0/,A(4 4B=40\*)4 \*.F '\* . ./ 2.1B.=40\* B)\*,B=4\*C B 2.=4



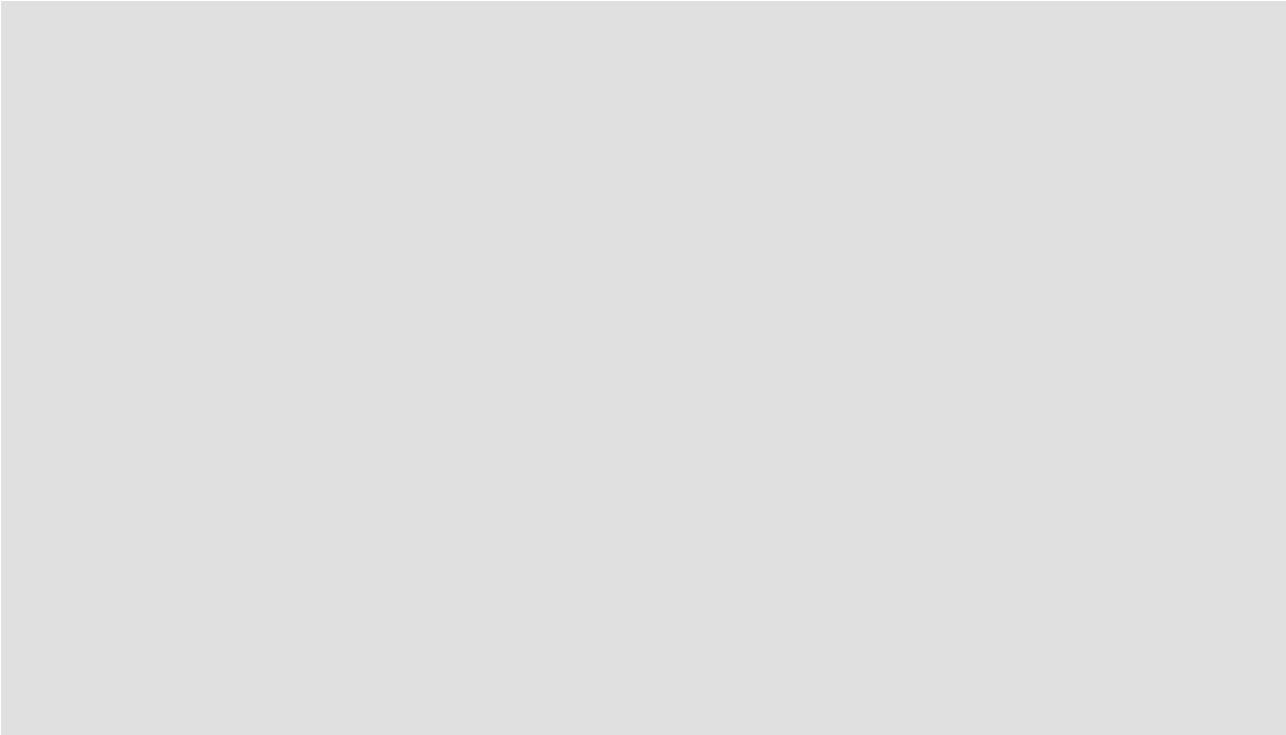


```
g  X      L%ss
   X      Lcss
   % ...2A.?0//>< ,=: .A(*I
   % y0<)*B(*0=C/.F /0 6.JA,*C)4 6. )3*( B.2A.),
```

}

```
7  Lc
8  E!8s      7  L W V      7  Y W      kXX
8  EG8s      7  L W V      7  Y W      kXX
8  E\8s      7  L W V      7  Y W      kXX
8  E%8s      7  L W V      7  Y W      kXX
8  Eg8s      7  L W V      7  Y W      kXX
```

R



```
ebNNLc      % &J/3=0/(0 1/, '0/(4 J3+B> w0)=( /,<60/,X
< eqNfeL\   % ~(/(I,=C/>< A,1I0A )=.B,
```

@0AB.0 \5J3+B0//.0 )=.B. #c .' +.BF 2=`) !c 1, +,M6.0 6.J,B=0//.0 )=.B.



i 7 Lc

mGnLc

80 8N4m, 89ã5Qd , ""ãø c,, cã'Ãc

8ú7 8bP0 ½Đ± „câó2'





eP

8 8  
! z G X  
m\nL8 d•†•51,56B3S5J3+B0//.05)=.B.8



%Y /. ) .:A,/( '0/(0I BA0I0/( 6=4 .J?0:. A,3/6,  
% %X •360\* +A, )(B.F 0)=( BA0I4 J360\* .\*)' (\*>B,\*C)4 /, p+A,/03/6,



L  
L8u:A, .+./'0/, 8  
% u:A, 0?0 /0 .+./'0/,  
L  
L88 % @.p\*.I3 R;(/,=C/.0 )..J?0/(0T 23)\*.0

8&)\*,=..)C 8  
8 8 88

R

3. T# 0# MN  
Q

8H,K S.6]8

5 8-,+.< A46k 8  
B .# # V  
% @A.B0A+, 2A,B(=C/.)\* ( \* 6  
m 5\$ 8 V8 n % j,M,B B.1BA,\* 5 B>S.6(I



m 8 8 5 ž ! n

L

L

8

8

^  
^

m {" 7 mcn} 5 ž ! n

8 @.J06(= J.\*Z8

V c % H.))\* ,/.B=0/(0 (1.JA,M0/(4 /, p+A,/0  
q0e

R

% LLL %

(/)\*A3+D(( % ")=( '0=.B0+3 /3M/>  
^ % i(A/>0 )(IB.=> 6=4 J.=00 36.J/... 2A.)I.\*A,  
% @.+,1>B,0\* (:A.B.0 2.=0

7 m n % &)/.B/.< D(+=  
^ % h0A06.B,/(0 S.6.B J.\*, ( '0=.B0+,

% LLL %

% ...2A,M/0/(4]

% 55555555

% ...=3'K(\*0 )\*A,\*0:(` J.\*,









```
% &*+=`',0I M(A/><
% H+=`',0I .J>' /><
```

3 . MN  
Q

!

8 8

% 555555555555555555555555  
B2

G W Ž c < r NX

$$8 \quad \{Nm \quad n\}8$$

```
mm 8 8 5 Ž 8 x!8 `` 8 8 5 Ž 8 xG8 `` 8 8 5 Ž 8 x\8 nn
```

mm 8 8 5 Ž 8 xx!8 8 8 5 Ž 8 xxG8 nn

S





V L !  
^ L G







L "0q  
VLc  
Ž L  
L  
L  
5

%%%%%%%%%%%%%%%%%%%%%%%%%%%%% •" "ju"5'&y %%%%%%%%%%%%%%%%%%%%%%%%%%

m 5 [" ax0 n  
% [" ax0 L Ž %\1

% j3M0/ .).J>< 2,\*' 6=4 L\1 ZZZ

WW

YYXXs

% S.6>mcnL

L W

Ž X

5 8

8

WW <

™

N efNfe XX 5 Ž c ;;

% H>B.6 G! S.6, )\*A.+(





abx QL!  
5 8 %%% U=32,4 )\*A,\*0:(4 %%%8

abx QL€€  
5 8 †=: .A(\*I q 8

\$

Lc  
m nL % &\*I0',0\* +,M63` +=0\*+3 6.)+( ) /.I0A.I S.6,



8 V L 7 Y 8  
8™\ 8 8 { Ž m Vn}8s 5 8 8

% z t !c !! !G z  
% z !\ !% !g z  
% 5555555555555555

%%%%%%%%  
% -. /)\*,/\*> %  
>br"f L!# %  
r Nllc %  
f x"f<rab"f f aLic %  
%%%%%%%%

%%%%%%%%  
% y, //>0 %  
%%%%%%%%

x \$\$ LW ! G \ % g # l i t !c !! !G !\ !% !g 8 8 X

%%%%%%%%  
% •3/+D( ( %  
%%%%%%%%

G \$ B 3  
Q

L {x \$\$ m !n}  
x \$\$ m !nL {x \$\$ m Gn}  
x \$\$ m GnL  
R

G \$ o .#  
Q % @0A0I0K(B,/(0 20A06 /, ',=.I (:A>  
! G

{! !cc}  
  
!L WW "reQ0< ™ >br"f XX  
GL WW "reQ0< ™ >br"f XX  
7 ! G  
! \*a aq òaq ÅRŠ !cc}



WW \$ YY XX

8z8 % @A,B,4 :A,/(D,  
! L % 8Y5555Y5555Y5555Y5555Y8

#  
8€5555€5555€5555€5555€8 % j(M/44 :A,/(D,

R

G \$ # \$ \*

R

%%%%%%%%%% qK! \* MN %%%%%%%%%%Q

Lc

Š

B .# % w(+ = /0 2A0A>B,0\*)4 6. .+./',/(4 A0K0/(4 :.=.B.=.I+(

S

x x \$\$

7

P e

\$ L k

P x e \$

\$ L k

WW YYXX

< \$ ; ; •

; ; •

#

S

x x \$\$

s 8••†H&Z8s

V c

%%%%%%%%%%R

% ...2A, ? \$ q Å°

#

```
Q  " L {!]5 f e0xr"r<}    % y.=M/. J>*C 3+,1,/ . +=('0)*B. 6()+.B
<    Lc

<q Qa,L1
```



cX

ss

X

8 WW !5!XX8 G % \

m 8 < 8 5 c n

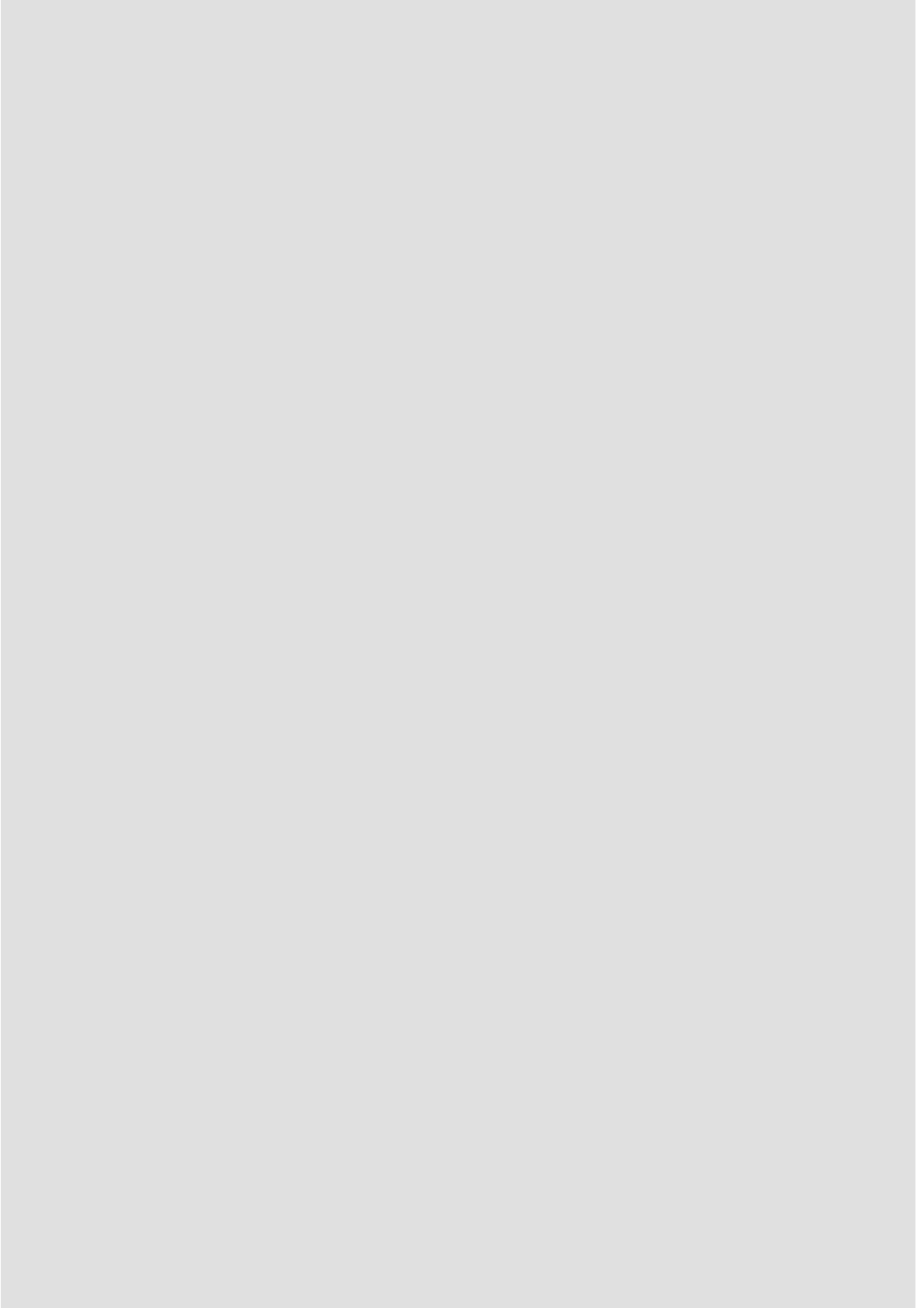
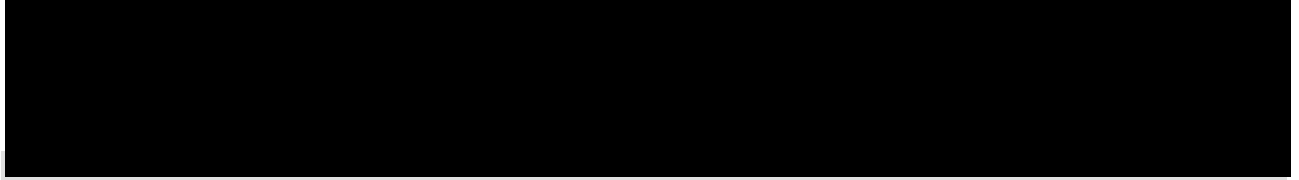
8Y @.1(D(4 2.)=0 S.6, < 8

#

V f eOf a % j0 )=0630\* 160)C B>S.6(\*C  
% @A(I0',/(0]  
% @0A0/,2A,BC\*0 B>B.6 )D0/,A(4 B ;,<=F B 2A.\*(B/.I )=3',0 ./ B>B060\*)4 /,  
%Y p+A,/

5( ) ( A-C{< t\$ + ! %\$ \*@U K K V @









5 e L {c%% }  
5 0 L8 ] 8  
5 N 0 L8 F F ]F F F 8

, # \$ I MN Q  
8uI4 ;3/+D(( € { be[er<f}€8



%Z

% b P 0 5G

% u1I0/0//>< )D0/,A(< 6=4 (==`)\*A,D(( \*,J=( '/>S A,)K(A0/(<

%Y .2D(< +.I,/6/.< )\*A.+(

% ~I 2A(=.M0/(0 8HB060/(0 B \*,J=( '/>0 A,)K(A0/(48

% y.)\*32/>0 Å(48



#

G L!#  
âp! {c g}  
{  
G ð %t ô

[illegible]

7 m 5 n  
% L {!] ] }  
666666666666 ~I U=,B3 !cŧ

ww] x}

] ^ ã`•@ GĐ

7 b 8 8 % &\*I0',0\*)4 \*. =C+. '\*. 2A. (:A, //, 4 J3+B, \$Đ







%

V c













% @0A0I0//,4 I.M0\* .2A060=4\*C)4 +,+ I,))(B E F 4B/. (=( +.)B0//.F  
%Y )(/\*,+)( ).I .20A,\* .A, 2A()B,(B,/(4  
% æB/.]  
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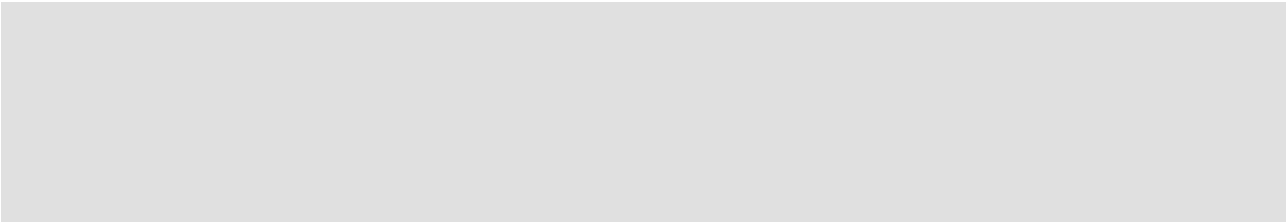
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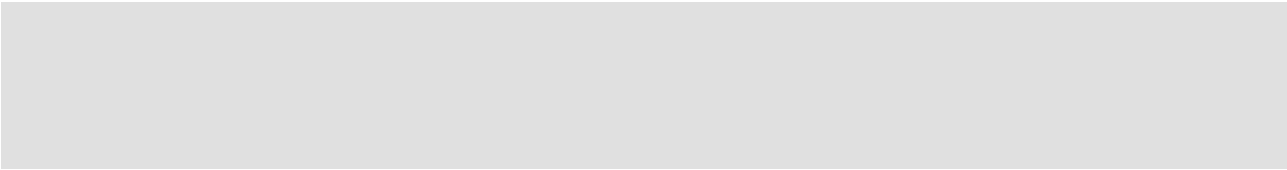
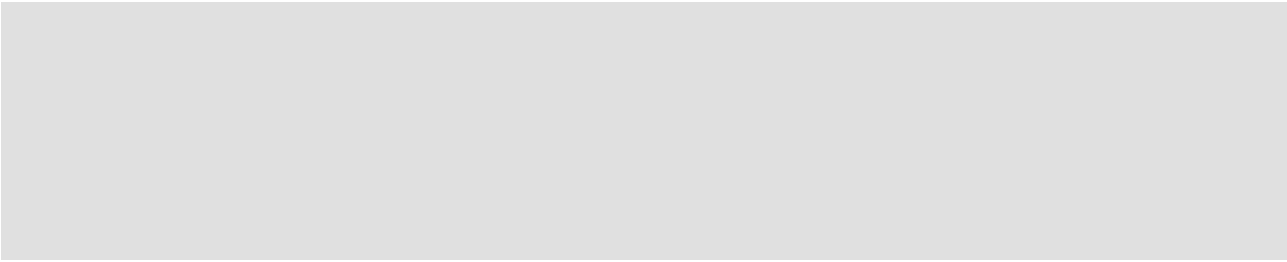
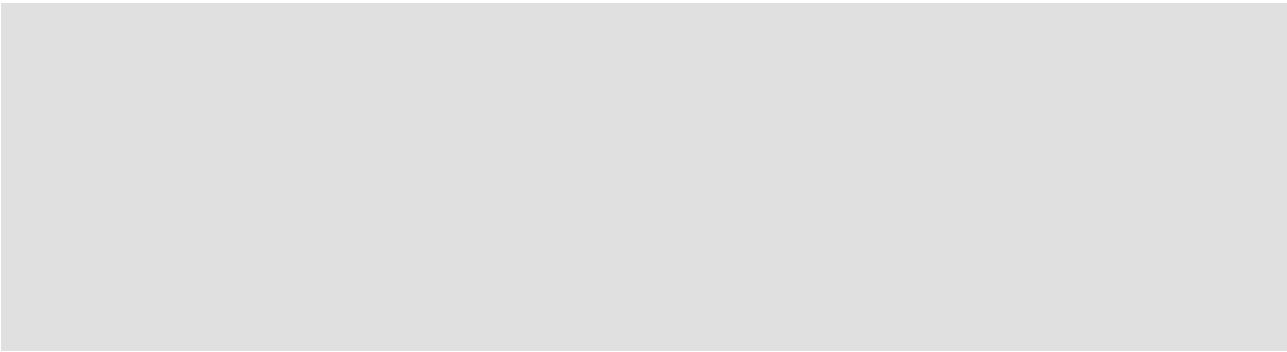
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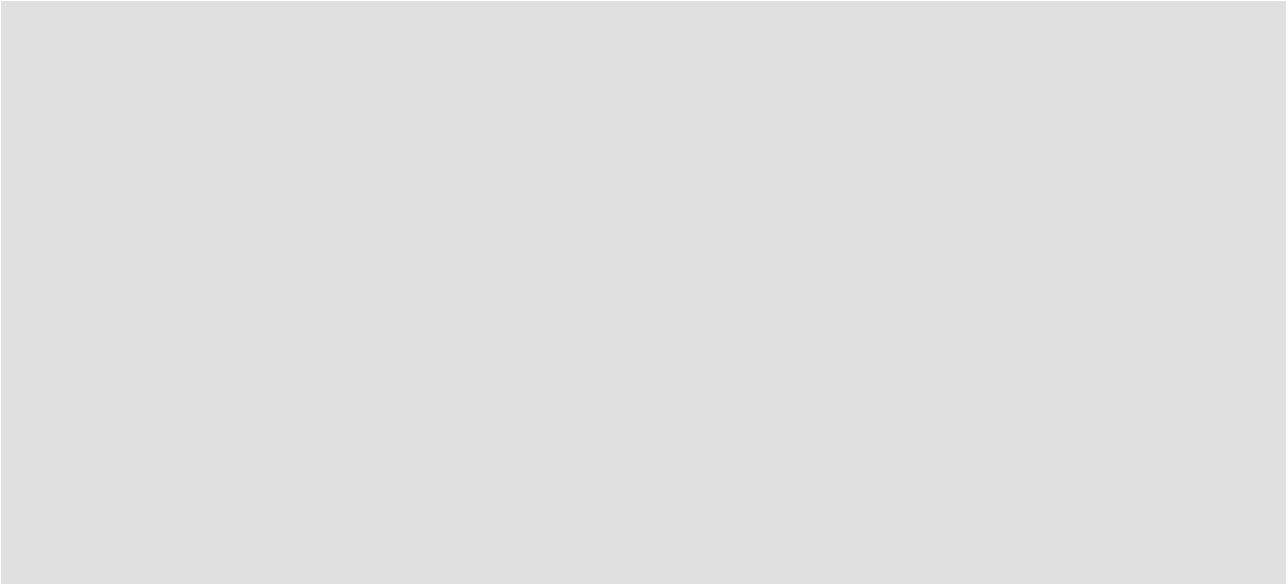
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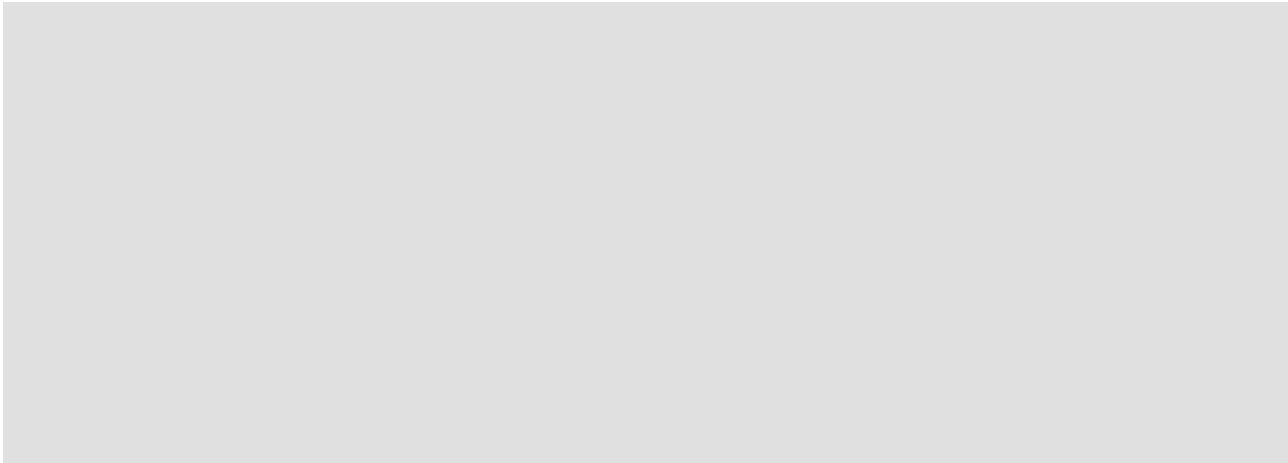
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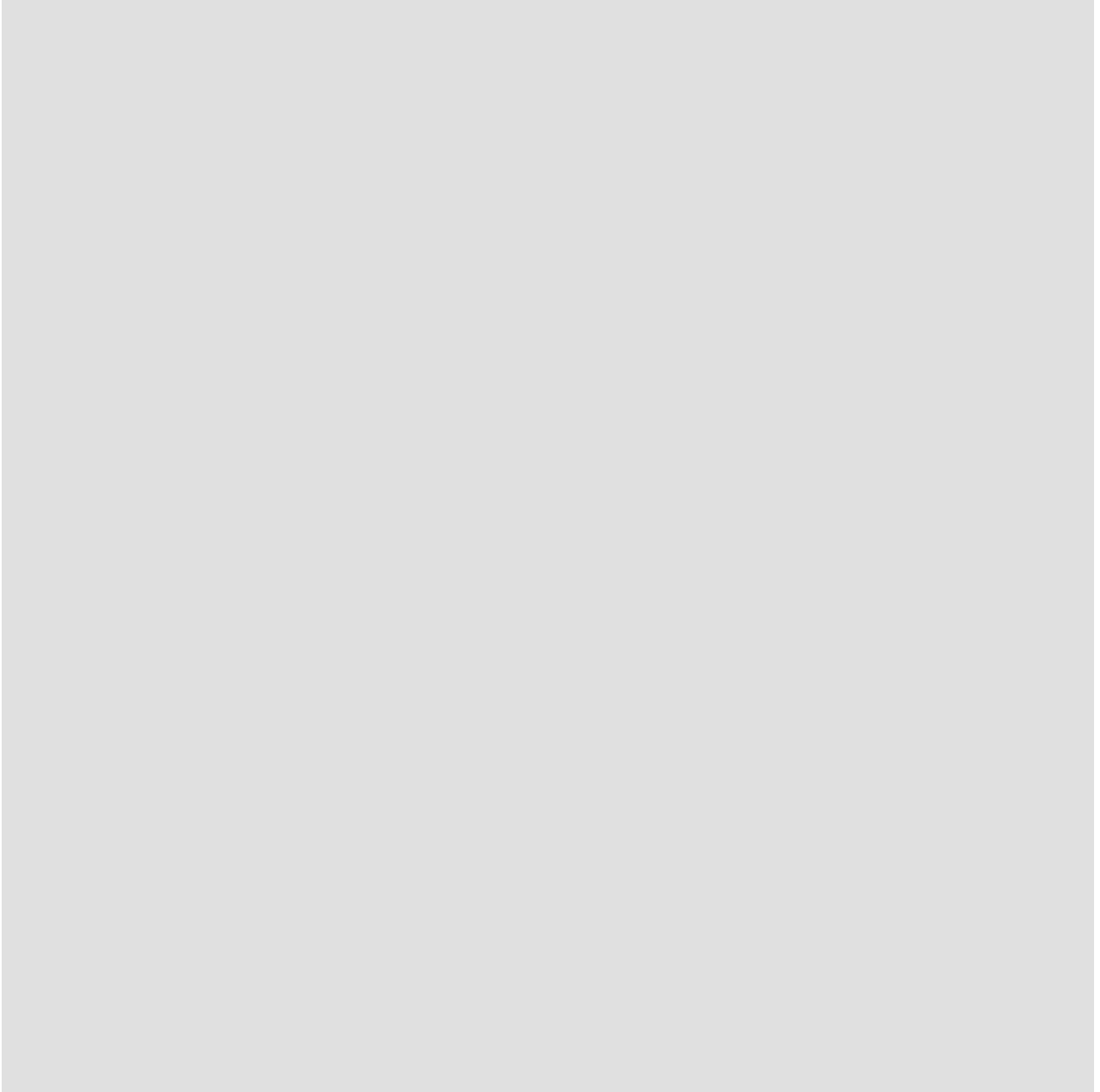


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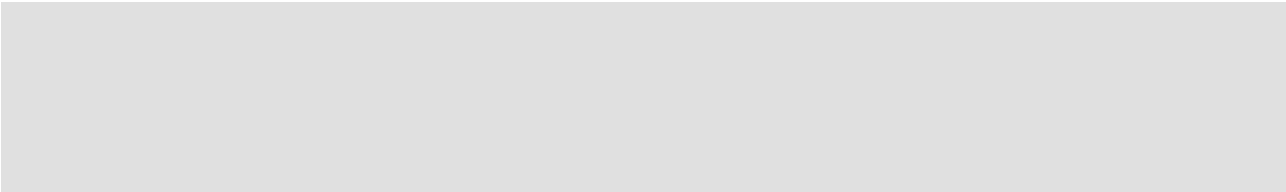
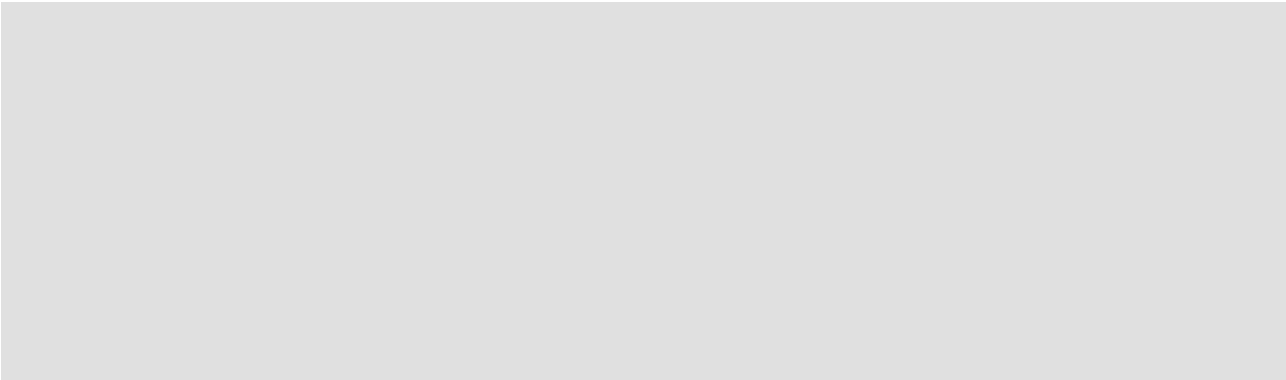
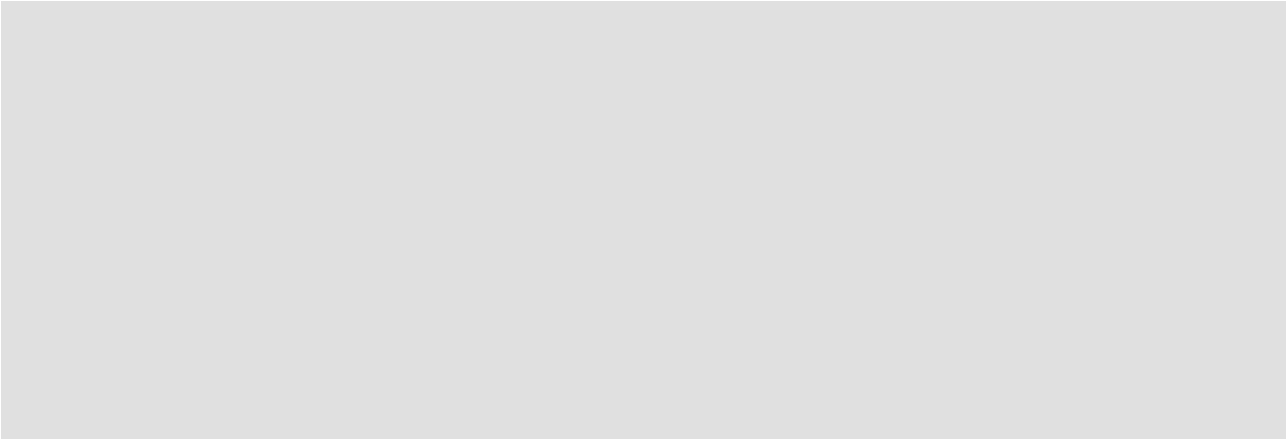
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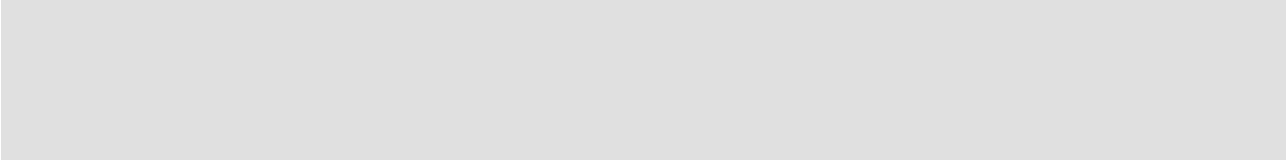
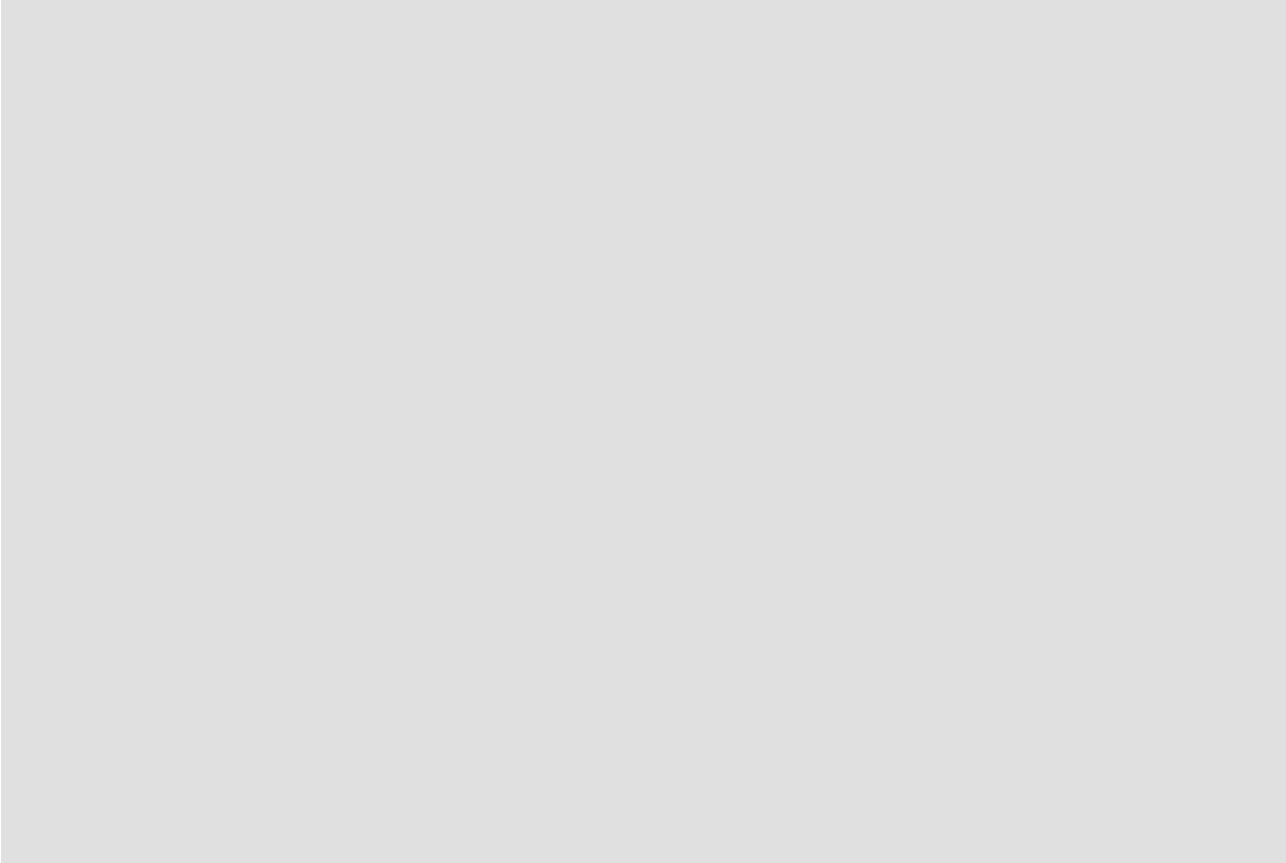
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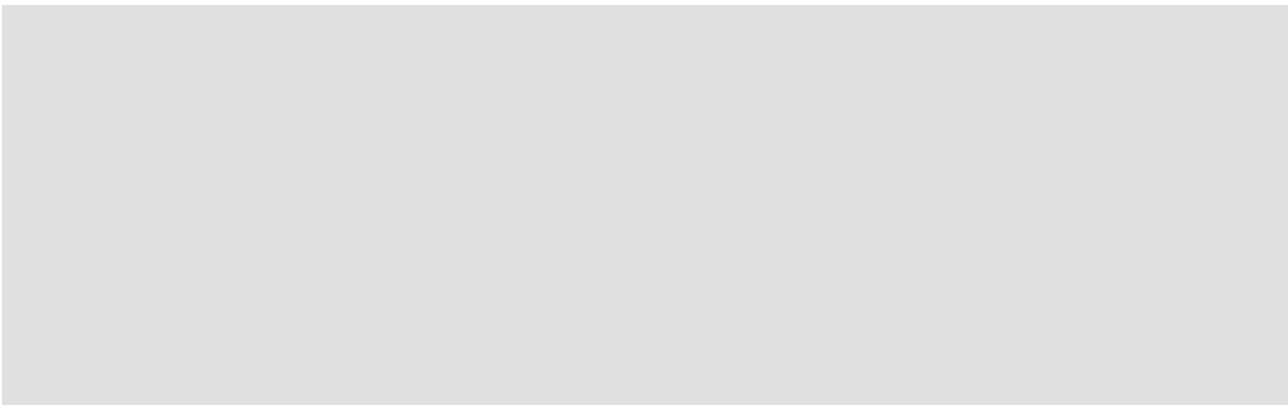




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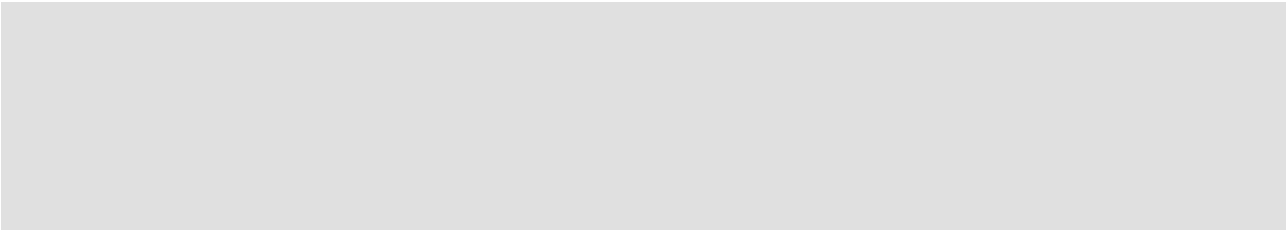


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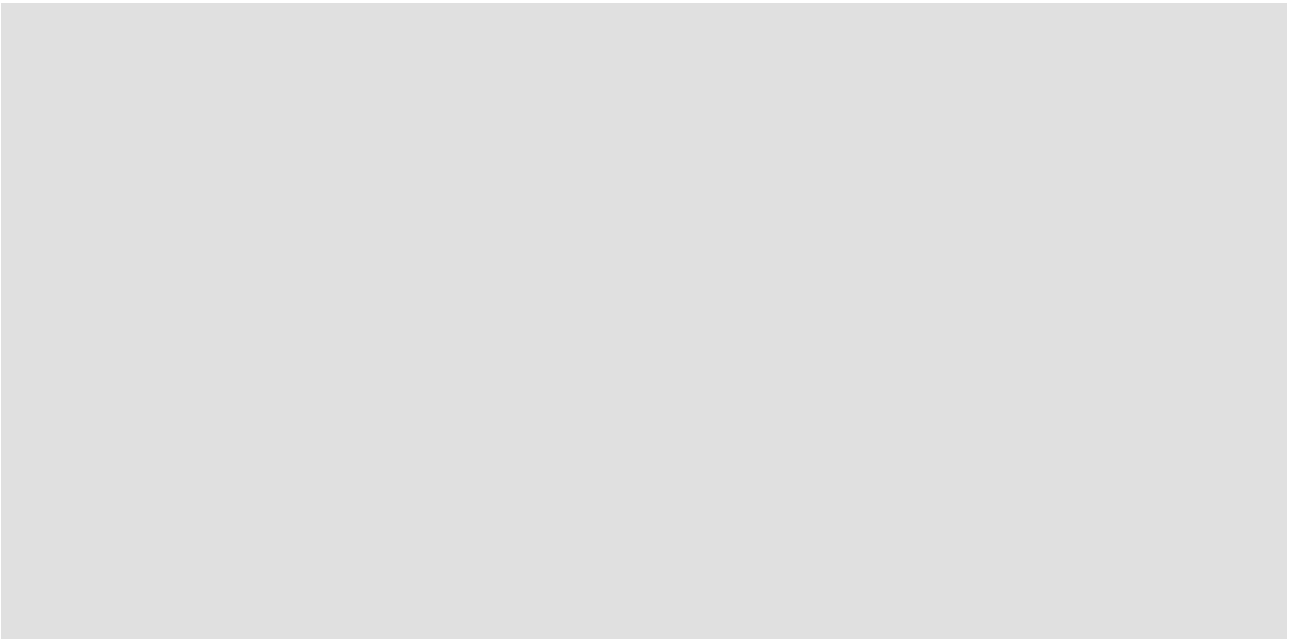
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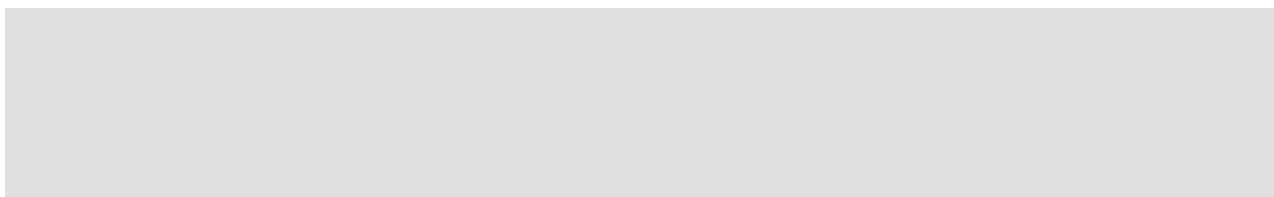
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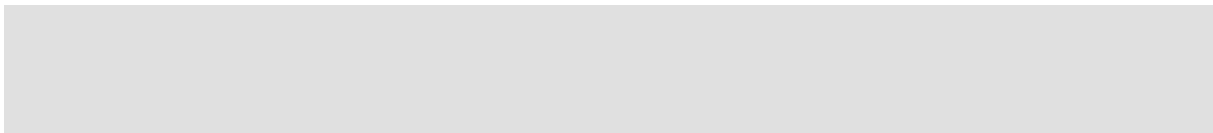






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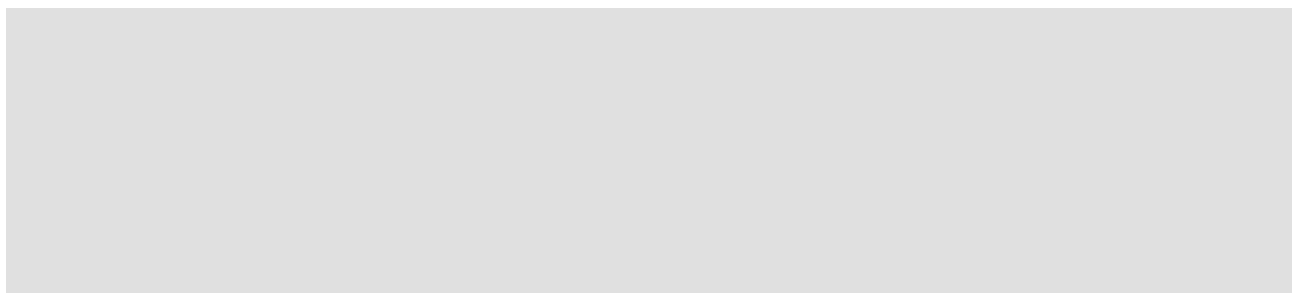
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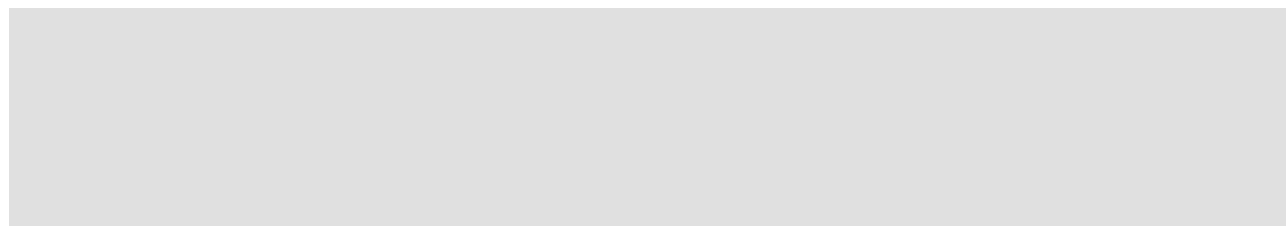
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