```
! "#$\%\&\% ""()*+,)-,.)/0123).45+,6
               78)9:; <8)2<:>?3) - )@=:A()%B)1<(; %8A)C<\$\#&D)T e E
                                                                                                                                            a
                                 E #8=?>)@?&&#%8)4,4F64,4*3)H#>&=)C?>;)/H<$$)4,4F6)
     I ?8?><$) 0 % :>&?)J8B%>; <=#%8K) 1 ?L%; ; ?8A?A)@:''$?; ?8=<>() 1 ?<A#8MK)@L''?A:$?)
!
                                                  O\%L <= \#\%8)P)C\#;?"!
                                                     #$%!&'()*!+,-.!/!01234.!("55!6.7.!8!9"95!6.7.!
J8&=>:L=%≥"!
                                                     : 3.!:;<=>!?@,AA!
J8&=>:L=%>D&) 7 BB#L?"!!
                                                     #$%!&'95!
 7 BB#L?) 9 %:>&"!
                                                     02B4.! / !CB > .!D"'5!8!(5"'5!EF, , 70!HI!;66, = -A7B-AJ!
C??'''%8?)P)Q; <#$"!!
                                                     9) 5KL9(KL)(L^*!>MN4@,AAO2<=@.@;!
- R7SC)C9J@)07S1@Q"!
P; I7, ->!0; 00=4R!S, 3T!1; 4!HBB-!>B<, AB>!A, !2->B34A; ->=-U!S1; A!=4!>=4A=-@A=<B!; H, 2A!
127;-!HB=-UG!;->!;4!42@1!1;4!HBB-!1;=QB>!;4!V;!4;Q2A;3I!S;TBK26!@;QQ!N,3!A1B!127;-=A=B4W.!
X = B - 161 = 0, 4, 61 = 184 = 88 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 = 184 
3B7,-4A3;A=,-!;U;=-4A!61=0,4,61I!N,3!=A4!1;<=-U!N;00B-!;40BB6!;A!A1B!S1BB0.!VO1B!
>=4A=-@A=<B!NB;A23B4!,N!127;-!HB=-U4Z4B0NK1,,>G!N3BB!S=00G!A1;A!@,QQB@A=<B!46;@B!@;QQB>!A1B!
127;-!S,30>G!A1B!4B-4B!A1;A!SB!0B;>!,23!0=<B4!3;A1B3!A1;-!4=7601!0=<B!A1B7!;4!,3U;-=474!
>, Z;3B!HB=-U!>=4@;3>B>!;4!=0024=,-4!HI!7;-I0!B<B-!HI!61=0,4,61B340!S1,!41,20>!A1=-T!;!
0=AAQB!1;3>B3!;->![2B4A=,-!A1B!U0;7,23!,N!4@=B-@B!3;A1B3!A1;-!42@@27H=-U!A,!=A.W!!"#$
%&'()*)+$, -). /($B->B;<, 234!VA,!7;TB!<=4=H0B!A1B!>=4A=-@A=<B!NB;A23B4!,N!127;-6!;4!
.66,4B>!A.!: -=7:00!@.-4@=.24-B44.W!\A!;3U2B4!V;U;=-4A!-B23;0!BY60;-;A=,-4!.N!
0, -40=, 24-B44!; ->!; U; =-4A!A1B!; 44276A=, -!A1;A!0, -40=, 24-B44!=-!UB-B3;00!; ->!127;-!
@,-4@=,24-B44!=-!6;3A=@20;36!@,20>!HB!BY60;=-B>!=-!B<,02A=,-;3I!AB3746!;4!;-!;>;6A;A=,-.W!
 14!N, 3!O; 00-4!1=74B0NG!1B!-4!>B4@3-HB>!; 4!V^0=AB3; 3IG!=-AB00B@A2; 00I!N3BAN200 ; !7B7HB3!, N!;!
3;3B!H3BB>!,N!%-U0=41!6,0I7;A14!S1,!1;4!HBB-!S;U=-U!;!0,-B0I!S;3!;U;=-4A!A1B!
BY60; -; A=, -4!; ->!N=-; 0!A1B, 3=B4!, N!3; >=@:0!4@=B-A=N=@!3B>2@A=, -=47 O:00=4R!B-[2=3=-U!46=3=A!
=4!2-0=TB0I!A, !:01=B<B!:16,620:3!3B0B6A=,-"!H2A!1B!7:I!SB00!BYB3A!S1:A!a,1-!?A2:3A!+=00!
@1;3;@AB3=bB>!;4!;!c4B7=-;0!=-N02B-@BR.W!O;00=4R!S;3!=4!4;=>!A,!HB!0,-B0I!,-B6!HB@;24B!=A!=4!
S: UB>!: U:=-4A!A1B!>, 7=-;-A!:663,:@1!,N!@,-AB76,3:31!@,-4@=,24-B44!4A2>=B46!A1B!
4A; ->; 3>!4A; 3A=-U!6, =-A!, N!S 1=@1!1; 4!HBB-!@; 00B>6!HI!, -B!, N!=A4!@1=BN!63, 6, -B-A46!VA1B!
, HNB@A=<BG! 7; AB3=; Q=4A=@G!A1=3>K6B34, -!S, 3Q>!, N!A1B!61I4=@; Q!4@=B-@B4! \ !A1B!, 3A1, >, Y!
@1.=@B!A.>: I!=-!A1B!\%-U0=41K46B:T=-U!S.30>.W!
\-!A1-4!@, 234B!SB!S=00!HB!42660B7B-A=-U!, 23!3B;>=-U!, N!!"#$%&'()*)+$, -). /(!S=A1!4B0B@AB>!
ABYA4!N3, 7!A1B!1=4A,3I!,N!61=0,4,61I!@,-@B3-=-U!A1B!-;A23B!,N!7=->.!d;3A!,N!A1B!6,=-A!,N!
A1=4!0, 234B!=4!A, !=->=0; AB!A1B!6B3B--=; 0!-; A23B!, N!4, 7B!, N!O; 00=4R!; 3U27B-A46!; ->!A,!
=->=0; AB!1, S!7201!1=4!S, 3T!=46!BNNB0A=<BQIG!; -!BNN, 3A!A, |0; QQ!H; |0T!61=Q, 4, 61B34!A, |1A1B=3!
```

3, A4e 7 = 44=, -.!

```
! 1JT - 1U)CQVC3)
P;I7,->!0;00=46!!"#$%&'()*)+$,-). /(0$,$1#2#-*#$32$45./-$63-7*)357-#77$E&;4=-U4A,TB"!
              + ; @ 7 = 00; - 6! (DDDJ.!
]!1;3>!0,6I!S=00!HB!;<;=0;H0B!,-!3B4B3<B!E0;00!f!g!&:!h(i.'!0'hJ.!)
 1AA64"eeQ=-TK463=-UB3K@, 7.Bb63, YI.Q=H3;3I.2<=@.@;eH, ,Te(5.(55L 1 9mDLiK(K'hDK9Lnn9K9!
T - 1WJ2 I)@090TO"!
\-K@0;44!BY; 7"!
                                              '51!
\- K@0;44!BY;7"!!
                                              '51!
0;TBK1,7B!B44;I"!! h51!
BAAB3!U3; B4!@, 33B46, ->!A, |A1B!N, 00, S=-U!7; 3T4"! ] o!g!D5!K!(550!] !g!i)!K!iD0!] K!g!i5!K!
ih6!&o!g!LL!K!LD6!&!g!L'!K!Ln6!&K!g!L5!K!L96!#o!g!n)!K!nD6!#!g!n5!K!nh6!:!g!)5!K!)D6!m!g!5!
K!hD.!
T-J2)QX-OS-CJ72)01JCQ1J-"!
01=4!@, 234B!=4!")8"(9$+#&+:23*57#;6!S1=@1!7B;-4!A1;A!H, A1!=-!=-4A32@A=,-!;->!=-!B<;02;A=,-!
EAB4A=-UJ!B 7 61;4=4!=4!62A!, -!I,23!;H=0=AI!A,!2->B34A;->!A1B!;44=U-B>!3B;>=-U4!;->!@0;44!
>=4@244=,-4!,N!A1B7.!\-!A1=4!@,234B!SB!S=00!-,A!HB!3B0I=-U!,-!4B@,->;3I!0=AB3;A23B!,3!
0, 77B-A;3IG!A1,2U1!,N!0,234B!I,2!;3B!;0S;I4!SB00,7B!A,!42660B7B-A!I,23!3B;>=-U!;->!
@0;44!0B@A23B4e>=4@244=,-4!S=A1!4B@,->;3I!7;AB3=;0.!
O1B!@3-AB3=;!\!24B!A,!B<;02;AB!I,23!S,3T!;3B6!\!HB0=B<B6!@3-AB3=;!S1=@1!@,77,-!4B-4B!
S_{20}=42UUB4A!=-1A1B!; 44B447B-A!, 8161=0, 4161=0, 4161=0; 4161=0, 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161=0; 4161
```

/

- ;@@23;@I!,N!BY6,4=A=,-!
- 24B!, N!BY; 7 6QB4!3BNQB@A=-U!2->B34A; ->=-U!, N!A1B!42HMB@A!
- H3B;>A1!, N!; -; QI4=40!=.B.0!-27HB3!, N!6, =-A4!@, <B3B>!
- >B6A1!, N!; -; QI4=46!=.B.6!1, S!N; 3!=-A,!A1B!=442B!; -; QI4=4!=4!6241B>!
- 3B4,23@BN2Q-B44G!,3=U=

] QQ!=-AB3; @A=, -4! S=A1=-!A1=4!B-<=3, -7B-A!; 3B!42HMB@A!A, !A1B!2-=<B34=AI!BY6B@A; A=, -4!; ->! 6, Q=@=B4.!] - I!@, -@B3-4!; H, 2A!4A2>B-A!@, ->2@AG!7; I!HB!3B<=BSB>!; ->!3B46, ->B>!A, !=-!; @@, 3>; -@B!S=A1!A1B!; 663, 63=; AB!2-=<B34=AI!6, Q=@I.!

/

E;J!j-\@44!,\a1B3S-4B!46B@=\B>\G!;-I!\a;TB\K1,7B\B44;I4!;44=\U-B>!=-!1=4!\@,234B!724\B! +9'#;\$=>?:23-+\\$!). #7A\\$;35B(#:7'/*#;\\$'/8)-/+#;\\$/-;*3-+/)-\\$+"#\\$C3<;:*35-+\\$3-\\$+"#\\$ 2<3-+\$*3D#<.!\!S=00!-,A!;@@B6A!B44;I4!A1;A!BY@BB>!A1B!7;Y=727!S,3>!0=7=A.!i-0B44! , A1B3 S = 4B!46B@=N=B>6!; - I!B44; I4!; 44=U-B>!=-!A1=4!@, 234B! 7 24A!HB!42H 7 = AAB>!B3+"!; 4!1; 3>K @,6=B4!E;4!6B3!A1B!46B@=N-@!=-4A32@A=,-4!,N!A1B!B44;IJ!/-;!A13,2U1!&3=U1A46;@B.!! EHJ!\!S=00!-,A!HB!;<;=0;H0B!A,!>=4@244!AB4A!,3!B44;I![2B4A=,-4!,-!A1B!>;I!HBN,3B!,3!,-!A1B! >; I!A1BI!; 3B!>2B!A, !HB! S 3=AAB-!, 3!42H7=AAB>6!; 4!\!-BB>!A, !;<, =>!HB=-U!4S; 76B>!HI!0; 4AK 7 = -2AB!B - [2=3=B4.!]E@J!\-!UB-B3;Q!AB4A4!;->!B44;I4!;3B!3BA23-B>!S=A1=-!AS,!SBBT4!,N!42H7=44=,-.!OB4A4!;->! B44: I4!: 3B!3BA23-B>!--!@0:44@!-. AlA13.2U1!&3-U1A46:@B.! C 1B-!U3:>B>!S.3T!-4!3BA23-B>!A.! $I, 2!=A!S=00!N3B[2B-A0I!HB!; --, A;AB>!S=A1!0, 77B-A4.!\N!I, 2!S=41!A, !>=40244!I, 23!S, 3T!S=A1!$ 7 BG!60B;4B!3B;>!A1,4B!@,7 7 B-A4!N-34A.!O,!U-<B!I,2!;!@1;-@B!A,!>,!A1-4G!;4!;!7;AAB3!,N! 6.0=@I!\!>,!-,A!>=4@244!S,3T!,-!A1B!4;7B!>;I!;4!=A!=4!3BA23-B>.! E>J!\-!@;4B4!S1B-!\!3BA23-!U3;>B>!S,3T!=-!@0;44!;->!4A2>B-A4!;3B!-,A!A1B3B!A,!3B@B=<B!=A0!=A!=4!5'\$ $+3\$+"37\#\$/B7\#-+\$7+5;\#-+7\$A, \\ !@0;=7 !A1B=3!S, \\ 3T"! \\ !; 7 !-, A!3B46, -4=H0B!N, \\ 3!A3; @T=-U!>, S-!; \\ H4B-A!B=3!S \\ A!B=3!S \\ A!B$ 4A2>B-A4!A, !>B0=<B3!A1B7!A1B=3!S, $3T.!p-@B!\setminus 1;<B!3BA23-B>!U3;>B>!S$, $3T!=-!@0;446!\setminus !0$, -A=-2B!A, ! H3=-U!A1;A!S,3T!A,!@0;44!E242;001!N,3!;H,2A!A1B!-BYA!A13BB!@0;44B4J6!4,!A1;A!4A2>B-A4!@,-A=-2B!A,!1; < B!A1B!, 66, 3A2 -= AI!A, !@0; = 7! = A.!] NAB3!A1; AG!1, SB < B3G!; - I!2 - @0; = 7B > !S, 3T! = 4!, HA; = -; HOB!, -OI! HI!=-K6B34,-!;66,=-A7B-A!S=A1!7B.!m=-;00IG!\!S=00!-,A!HB!;<;=0;H0B!A,!>=4@244!;-I!S,3T!A1;A! 1;4!U,-B!2-@0;=7B>!HI!A1B!A=7B!0B@A23B4!1;<B!N=-=41B>!;->!A1B!BY;7=-;A=,-!6B3=,>!1;4!HBU2-.! O - CO) - @@J I 2 T Q 2 C@)Z) T J@@QY)CQ@C@"! \$: AB! : 44-U - 7 B - A4! \$ -00! - . A!HB! : @@B6AB>! \$ -A1 . 2A!6B - : 0A IG! 2 - 0B44!M24A-N-B>!HI! : ! 7 B>=@ : 0! . 3! , A1B3!;@;>B7=@;001!0BU=A=7;AB!3B;4,-.!\$;AB!;44=U-7B-A4!S=00!HB!;@@B6AB>!S=A1!;!6B-;0A1!,N!) 1 !6B3!>; I!E, 3!6; 3AK>; IG!=-@02>=-U!SBBTB->!>; I4!, 3!6; 3AK>; I4JG!N, 3!; !7; Y=727!, N!h!>; I4! E95 1 J.!] NAB3!N, 23!>; I4G!-, !Q; AB!; 44=U-7B-A4!S=QQ!HB!; @@B6AB>.! 7HHJ0Q)97S1@"! $p \ NN=@B!1, 234!S=QQ!HB!@, ->2@AB>!4I-@13, -, 24QI!EHI!F, , 7JG!; ->!A1B3B!S=QQ!HB!; !A,A;Q!,N!AS,!B1B3B!S=QQ!HB!; |A,A;Q!,N!AS, |A,A;Q!,A|B3B!S=QQ!HB!; |A,A;Q!,A|B3B!S=QQ!HB!; |A,A;Q!,A|B3B!S=QQ!HB!; |A,A;Q!,A|B3B!S=QQ!HB!; |A,A;Q!,A|B3B!S=QQ!HB!; |A,A|B3B|S=QQ!HB!; |A,A|B3B|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!HB|S=QQ!H$, NN=@B!1, 234!6B3!SBBT!>B>=@; AB>!46B@=N=@; 00 I!A, !A1=4!@, 234B.!&B@; 24B!, N!>B7; ->!EB46B@=; 00 I! -B;3!AB4A!>; I4!,3!B44; I!>2BK>; AB4J6!=N!I,2!S=41!A,!4BB!7B!>23=-U!,NN=@B!1,234!I,2!-BB>!A,!7;TB! ;-!;66,=-A7B-A!SB00!;1B;>!.N!A=7B.!O,!4BA!26!:!7BBA=-U!S=A1!7B!=-!7I!,NN=@B!1,234G!@,-A:@A! $7B!B=A1B3!=-!@0;44!,3!HI!B7;=00!;->!\!S=00!4B->!I,2!A1B!F,7!0=-T!N,3!A1B!;66,=-A7B-A.!$ O, !UBA!A1B! 7, 4A!, 2A!, N! I, 23!; 66, =- A 7 B - A6!=AR4!HB4A!A, !@, 7 B!63B6; 3B>! S = A1!46B@=N=@! [2B4A=, -4! ;H,2A!A1B!@,234B!7;AB3=;0.!N!N,3!4,7B!3B;4,-!I,2!@;--,A!7BBA!7B!=-!7I!6,4AB>!,NN=@BK1,23!A= 7 B46!60B;4B!@,-A;@A!7B!A,!;33;-UB!;-!;0AB3-;A=<B!A=7B.!C1=0B!4A2>B-A4!;3B!SB0@,7B>!;->! B-@,23;UB>!A,!@,7B!A,!,NN=@B!1,234!A,!>=4@244!@,234B!3B0;AB>!7;AAB34!E=-@0.!@0;44!@,-AB-AG!AB4A4G! B44; I46!BA@.J6!4A2>B-A4!S=41=-U!A,!7; TB!;-!; 66,=-A7B-A!A,!>=4@244!@0;44!@,-AB-A!=-!6;3A=@20;3! -BB>!N=34A!A,!1;<B!; AAB->B>!@0;446!,3!; A!OB;4A!A,!1;<B!0=4AB-B>!A,!A1B!3B@,3>=-U4!,N!A1B!3B0B<;-A!

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```
7=44B>!@();44EB4J!A1;A!;3B!6,4AB><u>1</u>
                                                                             ^{2}R < B - A!A1 = 4!@, 234BR4!
, NN=@B!1, 234!HB=-U!24B>!;41
                                                                                      =44B>.!+=44B>!
@0;44B4!@;-!HB!7;>B!26
J2CQOOQOCS
E - + \#((\# * + 5/(\$
                                      √3+"#$FGH$C#
                                                                B!-, AB!A1; A:
N, 3!A1=4!@
                                  3,4AB>!A,!A1B!$ +
                                                                ;3B!A1B!=-ABQQB@
                                K=@A,3=;.!:,!-,A!@=3
7 I4BQN!;
                                                                7; AB3=; 0!, 3!6, 4A
41;3=-U!4
                              7=44=,-.!d,4A=-U!@,2
                                                                04!A,!-,ABK41;3=-U
, A1B3S=4
                             B!7; AB3=; Q4!S=A1, 2A!A1
                                                                -!, N!I, 23!=-4A32@A,
A1B!d,Q
                            ABU3=AI!
                                                                ?Tt5Y4 + t kuH@gA32B / H@#233
1AA64"ee
                           ->;3e2->B3U3;>e=->BY.61
B-Ag5i
195d,
                            S 7 = @ 1 95 \ - ABU3 = AI / H
                                                                ->B3U3;>2;AB 1 95 ] @;>B 7 =@ 1
95PBU2
                             6Bg6,0=@=B4!
] - I!B<=>B
                                -U!7;AB3=;Q4!S=A1,
                                                               =,-!S=QQ!HB!3BNB33B>!A,!A1B!
#1;=3!,N!A1b
                                  \mathbb{Z}B - A!N, 3! = - < B4A = U:
07!U1JI9C
100!@,234B!@,-AB-A!
                                                                   4.34!N,3!B>2@;A=,-;0!
6236,4B4!;->!N,3!A1B!B1
                                                                              1R!7;AB3=;0!=4!
63, AB@AB > !2 - > B3!@, 6I3=U1A
                                                                                            @B6A!
>=4A3=H2A=,-!,N!7;AB3=;Q4!A,!,ATD
2->B3!N;=3!>B;0=-U!,3!;-,A1B3!BY@B6A=
>=40=60=-;31!;0A=,-!2->B3!A1B!PB4,02A=,-!,N!s,-K
6,0=@I!E]#('55J.!
                                                               XO)T - CO1J
4N)@S!!OQTQ2C-1U)OJCQ1-CS1Q)/J20(
&0;@TH23-G!?=7,-.!Vm=->=-U!d4I@1,0,UIGW!=-<=AB
                                                               =,-!A,!G)-;@$6/57/+);
      , *+)3-G!B>.!$B4Q=B!?AB<B-4,-G!P,UB3!?[2=3B
                                                                >; -B!EpYN,3>"!&;4=0!
      \&0; @TSB000!(DinJ0!66.!(K(9.!^&:!)h(!+hn_))
&(); TB 7, 3B6!#, (=-6!; ->!?24; -!X3BB-N=B()>6!B>4>.!$
                                                               50.006031TJ7500.2-N=0>
```

- =-!N</)-6!(9e955h6!k,027B!(9i6!\442B!96!66.!hh'Khhn.!^]<;=0;H0B!A13,2U1!jk=0!\$=H3;3I!@;A;0,U2B_!
- q; 7 (I G!: ..! C .!E \$/ -; \$ I 5 + \$32\$ + "#\$N(/*P\$N3&0\$ I \$ + "#\$L")(373 ' "9\$32\$638) +)3 !Ep YN, 3>"! &; 4=0!&0; @TS B()G! (Di DJ.!^&m! ' ((!q'(L)_!
- a;@T4,-G!m3;-T.!V C 1;A! + ;3I!:=>-RA!w-, SGW!!"#\$Q35<-/(\$32\$L")(373'"9!i'!E(DinJ"!9D(K9D).!^]<;=0;HQB!,-Q=-B!A13,2U1!jk=@!\$=H3;3I!@;A;Q,U2B._!
- BS=40! qISB0!:.!!''#%(57)D#G-; $ES, ->, -"!XB, 3UB!] QB-!/!j-S=-!$A>.!(DnDJ.!^&m!(n(!$hi !$
- $$BS=46! \ qISB0!:.!! "#$\%(57)D#$H#(26!H;4B>!,-!01B!X=NN,3>!$B@A23B46!>B0=<B3B>!=-!01B! \\ j-=<B34=AI!,N!%>=-H23U1!(DnnK(Dni!E$,->,-!/!&;4=-U4A,TB"!01B!+;@7=00;-!d3B44! \\ $A>:!(Di9J.!^&:!h)5!$hi_!$
- $+ @X = G! #, Q = -.!V #; -!CB!?, Q < B!A1B! + = ->K &, > I!d3, HQB7 uW!G) ; G! s BS!?B3=B4G!Di!E(DiDJG!66.! 'hDK'nn.!^] <; = Q; HQB!, -Q = B!A13, 2U1! j k = @!S = H3; 31!@; A; Q, U2B_!$
- s; UBQ0!O1, 7; 4.!V C1; A!=4!=A!\$=TB!A, !&B!; !&; AuW0!L")(373'")*/(\$R#D)#C!i'!E(DLhJ0!66.!h') K h)5.!^] <;=0; HQB!, -0=-B!A13, 2U1! j k=0!\$=H3; 3I!0; A; 0, U2B._!
- s; UBQG!O1, 7; 4.!V&3;=-!&=4B@A=, -!; ->!A1B! j -=AI!, N!#, -4@=, 24-B44GW!=-!G3 < +/(\$S5#7+)3-7!EsBS!x, 3T"!#; 7H3=>UB! j -=<B34=AI!d3B44G!(DLDJG!66.!(hLK(nh.!
- $\begin{array}{l} P, H=-4, -0! \ q, S; 3>.! \ G/++\#<\$/-; \$H\#-7\#0\$, \$6<) +) M5\#\$32\$63-+\#. \ '3</<9\$G/+\#<)/()7.! \\ E\#; 7 \ H3=> UB"!\#; 7 \ H3=> UB! \ j-<B34=AI! \ d3B440! \ (Di 9J.!^&!i 9)! \ Pn_! \end{array}$
- P, H=-4, -6! q, S; 3 > 6!B>.! IBT#*+)3 7 + 3 L''97)*/()7. !EpYN, 3 > "!#0; 3B -> , -!d3B446! (DD'J.!^&! i9)!p9h._!
- ?B;30B6!a,1-.!V+=->46!&3;=-46!;->!d3,U3;746W!!"#\$N#"/D)35</(\$/-;\$N</)-\$H*)#-*#7!'! E(Di5J6!66.!h(LKh)L.!^]<;=0;H0B!,-0=-B!A13,2U1!jk=0!\$=H3;31!0;A;0,U2B._!
- $\begin{array}{l} 0\;; (\emptyset=4\emptyset!P\;; I\;7\;, ->.!\;, ')-8\$G/-P)-\;; 0\$U\#5<3\;.\; /-)/(\$1/<C)-)+)7\$/-\;; \$+''\#\$G)7<\#'<\#7\#-+/+)3-\$32\$\\ 4\;5\;.\; /-)+9!E\; :\; 231\;; 7\;"!\;]\; @2\;7\;B-!95(\;(J.!^y\;d!^n5.)!0'^)\;h!95(\;(.!\;]<;=0\;; H\QB!\;; 4!BH\;,\; T!\\ &13\;, 2U1!\; j\; k=@!\$=H3\;; 3I_! \end{array}$
- O; (0=46!P; I7, ->.\$H##)-8\$I5<7#(D#70\$R#*(/).)-8\$45./-)+9\$2<3.\$J3; \$/-; \$H*)#-*#\$E s B S @; 4A(0B!26, -!0I-B"!]UB->; $!d2H(0=41=-U6!9595J.!^*$: !h)5!09)!9595.!p-!3B4B3<B!i k=0!=H3; 3I!
- OB=@17;-G!aB-I.!L'')(373'''9\$/-;\$+"#\$G)-;\$EpYN,3>"!&Q;@TSBQQ0!(DiiJ.!^&m!'i!'h'._!
- $\begin{array}{l} k => ; (0! mB3 -; -> , .! PB <= BS!, N!, ') 8\$G/-P) -; 0\$U\#5 <3 . /-) / (0\$1 / < C) -) +) 7\$/-; \$ + ''\#\$ \\ G) 7 <\#' <\#7\#-+/+) 3 -\$32\$45 . /-) +9!E : 231 ; 7 "!] @2 7 B 0!95 ((J0! = -! EHEH! (5 ' "! ' !E95 (9J0! 66.! n9 i kn9D.!^] <; = 0; H0B! A13 , 2U1! j k = @! $= H3 ; 3I! @; A; 0, U2B._! \\ \end{array}$

FN) 00 - @@)@09QYSOQ[)P)JT!71C - 2C)Y - CQ@3)

&BQ, S!=4!;!4@1B>2QB!, N!A1B!, 3>B3!=-!S1=@1!\!1,6B!A,!@,<B3!A1B!A,6=@4!@,<B3B>!=-!!"#\$ %&'()*)+\$,-). /(.!] QA1,2U1!A1=4!H, ,T!=4!41,3AG!=A!=4![2=AB!>B-4B!;A!A=7B4.!m,3!A1=4!3B;4,-!\! 4A3,-UQ1!;><=4B!I,2!A,!4A;3A!3B;>=-U!=A!4A3;=U1A!;S;IG!;->!-,A!A,!S;=A!2-A=Q!SB!@,7B!A,!A1B!A,6=@4!;4!A1BI!;3B!;><B3A=4B>!=-!A1B!4@1B>2QB.!]-!B;3QI!UB-B3;Q!4B-4B!,N!A1B!S,3T!;4!;!S1,QB!S=QQ!1BQ6!I,2!HBAAB3!2->B34A;->!A1B!46B@=N=@!A,6=@4!;->!;3U27B-A4!A1;A!SB!@,<B3!=-!@Q;44.!!

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! 17XJ@J72 - 0)@09QYSQQ[!
!
                          E QQW).)/0$<&&).3)@?'=\)\6)
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/

```
.N!O1234.!?B6A.!L!! K!#, 234B!\-A3, >2@A=, -"!&=, U3;61I!/!;44B447B-A4!, N!O; @4.!
                                                           K!d1=0,4,61=@;0!@20A23B!S;34G!@N.!C=00=;7!a;7B4!VO1B!d3B4B-A!
                                                            := (B77; !=-!d1=0,4,611W.!0; (0=46!, ')-8$G/-P)-; (6.166.!()) KhD.!
!
                                                                      E QQW)4)/0$<&&?&)4)P)F3)@?'=\(\)\.\)P).*6)
4N! + , -.!?B6A.!((!! K!Vp < B3A23BW!E(KnJ! / !#1.!("!V$, 4=-U!#, -4@=, 24-B44W!E(K(LJ.!)))
FN!O1234.!?B6A.!(h! K!Vp<B3A23BW!E(KnJ!/!#1.!("!V$,4=-U!#,-4@=,24-B44W!E(K(LJ.!
                                                                             E QQW)F)/0$<&&?&)*)P)]3)@?'=\(\).^)P)4.6)
*N! + , -.!?B6A.!(i!! K!#1.!9"!V&=,0,U=b=-U!#, -4@=,24-B44!\"!%<,02A=,-;3I!01B,3=B4W!E(iKhhJ.!
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               !
                                                                             E QQW)*)/0$<&&?&)5)P)\3)@?'=\04])P)4^6)
5N! + , -.!?B6A.!9)!! K!#1.!'"!V&=,0,U=b=-U!#, -4@=,24-B44!\\"!01B!#0dW!Eh)K(5(J.!
\N!01234.!?B6A.!9i! K!#1.!'"!V&=,0,U=b=-U!#,-4@=,24-B44!\"!01B!#0dW!Eh)K(5(J.!)
                                                                                                   E QQW) ] / 0  < &&  ^3) 7 L = 10  ] 6
E QQW(5)/0$<&&)+3) 7 L=N).46)
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 $^{N!}01234.!p@A.!))$ G)H#>&=)J8GL\$<&&)Q <; N

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! K! 2%) 0 \$<&&?&)/C''<8 `&M#a#8M)Y<(6) + , -.!p@A.!D!

+N!01234!p@A.!(9!! K!#1.!'"!V&=,0,U=b=-U!#,-4@=,24-B44!"!01B!#0dW!Eh)K(5(J.!)

 $E QQW()/(0 \le \& ?\&)., P)...3)7L=(0.5)P).+6$

.N! + ..!p@A.!(n!! K!#1.!"!V&=,0,U=b=-U!#,-4@=,24-B44!"!O1B!#OdW!Eh)K(5(J.!)

..N!01234.!p@A.!(D! K!#1.!h"!V#, 762AB3=b=-U!#, -4@=, 24-B44W!E(59K(h5J.!

$E QQW)^{\wedge}/0$ \$<&&?&).4)P).F3)7L=\\)4F)P)456)

! .4N!+,-.!p@A.!9') :
z!O1=4!4@1B>20B!7;I!HB!42HMB@A!A,!4Q=U1A!3B<=4=,-G!;4!4,7BA=7B4!>=4@244=,-!;->!A1B!NQ,S!
,N!=>B;4!=-!@Q;44!3B[2=3B!24!A,!46B->!7,3B!A=7B!,-!@B3A;=-!42HMB@A4G!QB44!A=7B!,-!,A1B34G!
A1;-!,3=U=-;QQI!6Q;--B>.!

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