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 $\begin{array}{l} \text{Pc Y!+, GG51G)01\&!*9)+52-!.2+7-18!:20H6!50+-74)!5061:7+1,:!1(:,7@(!9:,.)66,:!204!A(,6)!151-)!+20!\\ \text{D)!G, 45.5)4!D8!; -505+2-I!=)6)2:+(I!T565150@!,:!U4\70+l\&!*)+,042:8!299,501G)016!50+-74)!5061:7+1,:!1(:,7@(!9:,.)66,:&9 \end{array}$ 

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- '()!; ,06151715,0!,.!!()!?05>):6518!B2+7-18!204!2!\*+(,,-!,.!/)012-!3)45+50)!.2+7-18!:)6,-715,0! 6121)!1(2!!2!!-)26!!P"Y!2!G2\,:518!,.!?05>):6518!B2+7-18!G)GD):6!A51(50!1()!\*+(,,-!6(2--!D)! 1)07:)4!,:!1)07:)!1:2+H!.2+7-18!G)GD):6k!'()!9:,>,61!A5--!G,051,:!204!G761!299:,>)!2>25-2D-)! 1)07:)4!,:!1)07:)!1:2+H!9,6515,06!50!2--!+,061517)01!.2+7-15)6k!
- '()!T, ||50@!B2+7-|8!56!4).50)4!26!1()!1)07:)4R1)07:)!1:2+H!204!1()!0,0K1)07:)!1:2+H!U!.2+7-|8k! '()6)!@:,796!,.!.2+7-|8!(2>)!>,|50@!9:5>5-)@)6!26!6|21)4!50!1()!B2+7-|8![204D,,Hk!Z,01)07:)! | 1:2+H!C!204!\*9)+52-!.2+7-|8!G)GD):6!(2>)!0,!>,1)!,0!G2|1):6!+,G50@!D).,:)!1()!\*+(,,-!,.! /)0|2-!3)45+50)!.2+7-|8!!70-)66!69)+5.5+2--8!26H)4!1,!>,1)!,0!2!92:15+7-2:!5667)!D8!1()!T,|50@!B2+7-|8k!

'()6)!+:5l):52!2:)!299-5+2D-)!!,!)2+(!.2+7-18!G)GD):I!D7!!!()!)G9(2656!204!!()!189)6!,.!)>54)0+)!

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#\|\ \U!\.\:\G2-\!+\,0654\):\(2\!5\,0\!\.\:\!1\)\(07:\)\!\\A5--\!\.\:\\4502:\5-8\!\.\+\7:\\!2\!\!\()\!\!5G\)\!\.\\!\()\!\.\2\+7-\18\!\G\)\GD\):\(d6\!\)
       G20421, :8!:)>5 A!421 PDII!5.!+5:+7G6120+ A2::20II!G28!D B25051521 A1:2:5 A1:4:1 A2::4:1
       G28!D)!505l521)4!2!!!()!:)L7)6!!,.!)5!():!!()!.2+7-18!G)GD):!!!()!4)92:1G)0!!+(25:!,:!!()!4)20&!
       :)69)+!! 1,! 1()! G20421,:8! :)>5)A! 421)&! J.! A2::201)4! D8! 69)+52-! +5:+7G6120+)6I! 5045>5472-!
       )NI)065,06!,.!1()!9:)K!1)07:)!9):5,4!G28!D)!G24)!26!4)6+:5D)4!50!1()!?05>):6518d6!B2+7-18!
       [204D, HI!67D]+1!1, !1()!F: > ,61d6!299: >2-l!
   $\&\ U!!0,!!5G)!6(2--!20!5045>5472-!D)!+,0654):)4!.,:!:)>5)A!A5!(,7!!(56R():!H0,A-)4@)\&!
   % : 2045421)6! G28! +,067-1! A51(! G)GD):6! ..!:)>5)A! +,GG511))6! VB2+7-18! U+24)G5+! *12176!
       ;,GG5|1))I!|()!4)92:IG)0|!+(25:!204k,:!5045>5472-!G)0|,:60!..:!@75420+)!204!24>5+)!:)@2:450@!
       9:)92:215,0!,.!G21):52-!9:5,:!1,!2!6+()47-)4!:)>5)A&!
      (2045421)6!A5--!:)+)5>)!D,1(!!()!*+(,,-!,.!/)0!2-!3)45+50)d6!+:51):52!,.:!9:,G,15,0!204!1)07:)!
       204!1()!@754)-50)6!9:,>54)4!D8!1()!9:,>,61d6!,...5+)&!
   321):52-!1,!D)!=>5)A)4!
4&
       ; 2045421)6!6(2--!67DG5!!1()!.,--,A50@!G21):52-6!1,!1()!/)20E!
       2& U!+7::)0!!204!+,G9-)1)!>512)h!
       0 \cup 0 \cup 0 \cup 0
           1()!A,:Hh!
     !
       +k U!-56!, .!9):6,06!.:,G!A(,G!!()!4)20!+20!:)L7)6!!:).):0+)6k!'()6)!6(,7-4!D)!9):6,06!A(,!)
           +20!+, GG)0!!H0, A-)4@2D-8!2D, 7!!()!+292D5-5!5)6!204!+, 01:5D7!5, 06!, .!!()!+204542!)
           1():! G21):52-! 1(21! 1()! +2045421)! D)-5)>)6! A5--! 6):>)! 26! >>40+.7450@! A:511)0!
           6121)G)016!, .!6)-.K)>2-7215, 0!+,>):50@!1()!+:51):52!, :!9:, G, 15, 0!204!1)07:)M!
      '()!4)20d6!,..5+)!6(2--!67DG5!!1()!.,--,A50@!G21):52-!1,!1()!.2+7-18!)-5@5D-)!1,!:)>5)A!1()!
       +2045421)d6!9:,G,15,0!204R,:!1)07:)!:)L7)6!E!
       2&
          '()!G21):52-!67DG511)4!D8!1()!+2045421)h!
       Då
          <:511)0!:)>5)A!D8!1()!+(25:!,.!1()!4)92:1G)01h!
       +k J.! 299-5+2D-)I! -)I1):6! 67DG511)4! D8! +, --)2@7)6! \sqrt{501}:02-! 204R.:! )N1):02-! 1,! 1()! 6+(...-0!)
           6, -5+51) 4!D8!1()!4)20!50!+, 067-1215, 0!A51(!1()!+2045421)!204!, 1():!+, --)207)6h!
       4k M>2-7215, 06!: L7)61)4!::, <math>G!, 71654)!:).):))6k! '()!4)20!56!:)69,065D-)!.,:!!()!6,-5+51215,0!,.!
          -11:6!,.!:).):0+)!..; G!,71654)!:).):)6k! [)k6()!2667G)6!.502-!:)69,065D5-518!.,:!1()!
           +,01)01!I!ITj83.92cmd375-37lTm/T,!:ITj83.92583.92m/T!+!52583.92m/T!+!
                                                                                          1818Tc4TT41(()!)1
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. "P! ! .& '()! ,.!(56R():!1):G&!

$$\begin{split} \text{YIZ} & \quad \text{J01):} 5\text{G!299,} 50\text{IG})016!1,!.5--!>2+20+5)6!,0!6120450@!+,\text{GG511})6!6(2--!\text{D})!\text{G24})!\text{D8!1()!} \\ & \quad + (25:9):6,0!,.!!()!6120450@!+,\text{GG511})!)\text{N+})9!!\text{A()0!!()!+}(25:9):6,0!56!!()!4)20\&!\text{J0!!(2!!)} \end{split}$$

## ''>8<352&G& ) 4HH<8822=&

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"\(\lambda \) U!6120450\(\ext{0!} + \), GG511)\(\rangle \)!56!, \(\ext{0.2050}\) 4!...!6, \(G\)!\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\)\(\ext{0.1}\
            +, 015072--8!50!, :4):!1,!456+(2:@)!516!:)69,065D5-515)6\!
#\langle U0!\(2/\frac{*3}{4!}\), \(GG511\)\)\!56!\,:\(\text{@2050}\)\|4!\,\:!6\,G\)\!69\+5.5\+!97:\(9\,6\)!\,\:\!126\\\!J!\)\\\$616!7015\-!51!\+\,G9\-)\]\)6!\$16!
            (69)+5.5+(97:9,6)!, (126HI!, (170I5-151!56!456+(2:@)4!.., G!6):>5+)&! (()!4)20!204R, (1!()!.2+7-18!G28!
            :)L7)6l! 1()! . ,:G2l5,0! , .! 24! ( ,+! +, GG5l1))6! D8! 1()! ; ,GG5l1))! ,0! B2+7-18! U99,501G)016! 26!
            0)+)662:8!D71!,0-8!A()0!!()!+(2:1):!204!C8-2A6!4,!0,!!)N9:)66-8!9:,>54)!..:!!()!69)+5.5+!97:9,6)!
             ,:!126H!1,!D)!+2::5)4!,71!D8!,1():!G)206\!
           '()!6120450@!+,GG511))6!,.!1()!/)012-!B2+7-18!2:)E!!
            U4G5665,06!
             ; (2:1):!204!C8-2A6!
             ; -505+2-!U..25:6!!
             /)012-!M47+215,0!
            B2+7-18!U+24)G5+!*12176!!
            B2+7-18!Z, G50215, 06!!
            B2+7-18K*174)01!=)-215,06!
            _:24721)!*1745)6!
            =)6)2:+(!
             `71+,G)!U66)66G)01!204!F:,@:2G!M>2-7215,0!!
            *174)01!*120450@!204!F:,G,15,0!
      !'):G6!,.!3)GD):6(59E!
             ?0-)66!,1():A56)!6!21)4!!1()!1):G!,..!G)GD):6(59!,0!1()!MN)+715>)!C,2:4!204!,0!2!6120450@!
            +, GG511)!(2--!D)!..:!(2!G2N5G7G!..!(:))!(8)2:(6!...!2+7-18!204!.0)!8)2:!...!(6!74)016(8!U!G)GD):
            +20!6):>)!0,!G,:)!1(20!1A,!+,06)+7!5>)!1):G6!!D7!!1()0!G28!D)!:))-)+1)4!..:!20,1():!,0)!...!1A,!
            1):G6!2.1):!,0)!8)2:&!U99,50IG)0I6!,:!)-)+I5,0!,.!G)GD):6!6(2--!D)!6!2@@):)4!50!,:4):!1,!9:,>54)!
            +,01507518\&!ZA!+,GG511)(G)GD):6!A5--!2667G)!4715)6!21!1()!D)@50050@!,.!1()!+,01:2+1!8)2:!Vj7-8!
            "0!A5!(!!()!)N+)9!5,0!,.!!()!;,GG5!!))!,0!U4G5665,06!204!!()!;,GG5!!))!,0!*174)0!!*120450@!204!
            F: G_{15}, 061!50!A(5+(!0)A!G)GD): 6!A5--!2667G)!4715)6!, 0!*)91)GD):!"\&!
P^{k} '()!4)20!\(\cdot\):!1()!4)20\(\sh(4)\)65\(\sh(6)\)0)\(\sh(6)\)16\(\cdot\)16\(\cdot\)15\(\sh(6)\)15\(\sh(6)\)15\(\sh(6)\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)18\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\(\cdot\)16\
            1()!.5:6!!, :4):!, .!D7650)66!!U!+(25:9):6, 0!+20!6):>)!0, !G, :)!1(20!1A, !+, 06)+715>)!1):G6!VW!8)2:60!!
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! "c!

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;,GG5I1))!,0!U4G5665,06!

'()!;,GG5I1))!,0!U4G5665,06!6(2--!+,0656!!,.!2!45:)+1,:!,.!24G5665,06!204!0,1!.)A):!1(20!65N!VWQ!
G)GD):6!,.!1()!/)012-!B2+7-18!!.5>)!VPQ!,.!A(,G!G76!!D)!T,150@!3)GD):6!,.!1()!/)012-!B2+7-18!
0,G5021)4!D8!1()!;,GG5I1))!,0!B2+7-18!Z,G50215,06!204!)-)+1)4!D8!1()!.2+7-18!50!2++,:420+)!A51(!!()!
C8-2A6I!U:15+-)!JJJI!*)+15,0!Pk!2k!204!.,:!2!1):G!26!69)+5.5)4!50!U:15+-)!TI!^'):G6!,.!3)GD):6(59k^!

'()!4715)6!204!.70+15,06!,.!1(56!;,GG5I1))!6(2--!D)!1,E!

"& U667G)!:)69,065D5-518!.,:!24G50561:215>)!G211):6!:)-2150@!1,!24G5665,06h!

!
#& M612D-56(!612042:46!.,:!24G5665,0!1,!1()!9:)K4,+1,:2-!9:,@:2Gh!
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- "& :)>5)A!204!G2H)!:)+, GG)042l5,06!+,0+):050@!!()!+-505+2-!6l2042:46!,.!+2:)!!,!)067:)!!(2!!!()8!2:)! +,0656l)0!!A51(!!()!G5665,0I!@,2-6!204!,D\)+l5>)6!,.!!()!\*+(,,-!,.!/)0l2-!3)45+50)&!
- #&:)>5) A!!()!+:51):52!.,:!)>2-72!5,0!1,!)067:)!!(2!!!()8!2:)!+,06,020!!A5!(!!()!6!2042:46!,.!+2:)&!
- \$\lambda :)>5)A!1()!6):>5+)6!9:,>54)4!2-,0@!A51(!6174)0!!:)L75:)G)016!1,!)067:)!1(2!!6174)016!:)+)5>)!
  24)L721)!)N9):5)0+)!-)>)-6!50!2--!9(26)6!,.!4)012-!!:)21G)01\lambda

- $+ \frac{1}{7:50@!1()!T,150@!B2+7-18!G)} + \frac{1}{50@!B2+7-18!G)} + \frac{1}{50@!1()!+(25:9):6,0!,.!1()!G)} + \frac{1}{50@!6(2--!:)L7)} + \frac{1}{50@!B2+7-18!G)} + \frac{1}{50@!B2+7-18!G} + \frac{1}{5$
- #\( '()! +, GG5||))! 6(2-! G250|250! +, G9-)|)! :)+, :46!, ..! +, GG5||))! G)GD): 6(596!! 50+-7450@!|): G6!, ..!G)GD): 6(591!, :|2--!6|20450@!+, GG5||))6k!

;,GG511))!,0!B2+7-18

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$\&\ 54\)015.8!6174\)016!A51(!-)66!1(20!62156.2+1,:8!9):..;:G20+)\&!*174\)016!1,!D\!9-2+\)4!,0!9:,D215,0!6(2--!
                 D)!0,!5.5)4!D8!1()!+,GG5!1))I!204!1()!+,045!5,06!1,!D)!G)1!D8!1()!6!74)0!!1,!:)G,>)!(5GR():6)-.!
                  .:, G!9:, D215, 02:8!6!2!76!6(2--!D)!9:)6+:5D)4!!
 \% \{ : ) > 5) A!., : !+, G9-)1)0)66!204! @, , 4!6120450@!1()!+:)4)0152-6!, .!)2+(!+2045421)!., :!1()!2A2:4!, .!2!
                  (4)@:)(1204R,:1+):15.5+21)\&1: GG511)(1)04,:6)G(011...!)2+(1+2045421)!561:)L75:)4\&1'(1)1+GG511)(1)1
                  6(2-!., :A2:4!()!02G)6!, .!)04, :6)4!+204542!)6!!, !!()!.2+7-18!, .:!+, .0654):2!5, 0!, .:!1()!2A2:4!, .!2!
                  4)@:))&!
Pk = 20072 - 8!:) > 5 A!@: 24721)!+, :)!+, 7:6)6!., :!299:, 9:521)0)66!204!+, G9-)1)0)66!, .!+, 01)01!204!G2H)!
                  69)+5.5+!:)+, GG)04215,06!1,!+,7:6)!45:)+1,:6\ldot!
W&
                  (,>):6) (:24721)!+,7:6)!4)-)15,06!204!0 (A!+,7:6)!2445!5,06!!
[(0.5) \times (0.5) \times (0.
                9:,>54)!9:,+)47:2-!,>):65@(1!.,:!@:24721)!:)6)2:+(I!50+-7450@!1()656!9:,1,+,-6\&!11).
c \ell
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;,GG511))!,0!^71+,G)!U66)66G)0!!204!F:,@:2G!M>2-7215,0!
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 $"()!;,GG511))!,0!\ "71+,G)!U66)66G)01!204!F:,@:2G!M>2-7215,0!6(2--!+,06561!,.!1()!266,+521)!4)20!.,:!$ )47+215,0!204R,:!20!24G50561:215>)!4)65@0))!,.!1()!4)20I!A(,!A5--!D)!20!)N!,..5+5,!0,0K!

#P!

## ">8<352&GB& 1 2 3 . 4 2 3 . )%9

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!
'()!C8-2A6!G28!D)!2G)04)4!50!!()!.,--,A50@!G200):E!
F:,9,62-6!!,!2G)04!!()!C8-2A6!G28!D)!67DG5!I)4!!,!!()!MN)+715>)!C,2:4!D8!9)1515,0!65@0)4!D8!.5>)!VPQ!,:!
G,:)!T,150@!B2+7-18!,.!!()!/)012-!B2+7-18k!
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6+()47-)4!G))150@!,.!!()!/)012-!B2+7-18!,:!2!69)+52-!G))150@!+2--)4!.,:!1(2!!97:9,6)&!*7+(!2!
G))150@!6(2--!,++7:!0,1!-21):!!(20!050)18!VcXQ!4286!2.1):!!()!9:,9,62-!A26!:)+)5>)4!D8!!()!MN)+715>)!
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#& U0!2..5:G215>)!>,1)!,.!0,1!-)66!!(20!!A,KI(5:46!V#R$Q!,.!I()!/)012-!B2+7-18!>,I50@!6(2--!D)!:)L75:)4!
.,:!24,915,0!,.!20!2G)04G)01&!T,150@!G76!!D)!D8!0,!-)66!!(20!65N18!9):+)0!!VWXYQ!,.!1()!/)012-!
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 $\begin{array}{lll} \$\& & F:,9,6)4!2G)04G)016!6,!299:,>)4!.,:!24,915,0!D8!1()!\ /\ )012-!B2+7-18!6(2--!D)!.,:A2:4)4!1,!1()!\\ & ?05>):6518!B2+7-18!*)021)!1(:,7@(!1()!4)20!,.!1()!6+(,,-\&!)!\\ \end{array}$ 

B2+7-18!>, 150@I!204!G28!D)!4, 0)!D8!G25-D2--, 1&!

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         "& MN9):1!H0, A-)4@)!,.!1()5:!2+24)G5+I!+-505+2-!,:!:)6)2:+(!.5)-4!204!2!+,GG5IG)0!!1,!+,0150750@!
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