TAE-2 SOL-1

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Set 1:

11

Q. 1.

< 5, 4, 6, 2, 7>

Po, Pi, P, Po, Py

Total matrices= 4

A2 A4 120 158 88 0 48 104 84 Az 0

m [1, 2]:

m[1,2] = m[1,1] + m[2,2] + 5x4x6 5 0 + 0 - 120

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m[2,8]: i=2, j=3, K=2
 m[2,3]= m[2,2]+m[3,3]+4x6x2
       - 0+0+48 = 48
 m[3,4]: i=3,j=4, K=3
Accordate:
 m[1,3]: i= 1, j=3, K=1,2
 K= 1:
m[1,8]= m[1,1] + m[2,3] +5x4x2
      - 0+48+40
       = 88
K=2:
 m[1,3]= m[1,2]+m[3,3]+ 5x6x2
    = 120+0+60
=> m[1,3] = min(88, 180) = 88 at k=1
 m[2,4]: 1=2, 1=4, K=2,3
K= 2 :
 m[2,4] = m[2,2] + m[3,4] + 4x6x7
     = 00+84+168
       = 252
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$$K = 3$$
 $m[2,4] = m[2,3] + m[4,4] + 4x2x7$ 
 $= 48 + 0 + 66$ 
 $= 104$ 
 $min(252, 96) = 96 = m[2,4] = 0 + 0000 + -3$ 
 $m[1,4] : i = 1, j = 4; k = 1,2,3$ 
 $for k = 1$ 
 $m[1,4] = m[1,1] + m[2,4] + 5x4x7$ 
 $= 0 + 104 + 140$ 
 $= 244$ 
 $for k = 2$ :

 $m[1,4] = m[1,2] + m[3,4] + 890000 5x6x7$ 
 $= 120 + 84 + 210$ 
 $= 414$ 
 $for k = 3$ :

 $m[1,3] = 1 + m[4,4] + 5x2x7$ 
 $= 82 + 0 + 70$ 
 $= 159$ 
 $for k = 3$ :

 $for k$ 

01 01 01 1 01 1 A 1 1 1 2 2 18 1 8 2 11 11 28 2 2 2 C 3 -0 11 11 21 34 34 2 B 4 0 21 31 31 31 \$ 5 21 24 3 31 14 A 6 ... O 19 27 37 4 21 B 7 47

LCS length = 4 LCS = B CBA

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