```
DS & ALG.
                28th March 2021
PRINT-OPTIMA 2-PARENS(S,i,5)
 Print "A;"
  else print"("
        PRINT-OPTIMAL-PARENS (S, i, SCi, j)
        PRINT-OPTIMAL-PARENS (So Sciosi)+1, j)
         print > ) > )
PRINT-OPTIMAL-PARENS(8919n),
       10 50 20 100 15 30>
                                 \langle P_0 - P_6 \rangle = 6 numbers.
        Po Pi P2 P3 Py P5
            A2 A3 A4 A5
      Ai = Pi-1 x P; Where 1=1,2,3,4,5 (n=5),
A1 = 10 × 50 | A2= 50 × 20 | A3 = 20× 100 | A4= 100 × 15 | A5= 15×30
```

p.length=6, n=5	m
	1 2 3 4 5
Matrix-Chain-Order (p)	1 0 10000 BOK LBK
	2 U look 4th 67.5K
M=5x5, &=5x5	3 0 3 WK 39 K
0	4 0 W
for is 1 to is 5	5
m[i,i]=0	
- J. J.	S 1 2 3 4 5
	1 1 2 2
	2 2 4
	3 3 4
	4 4
	C

Heration 2=2. n=5 for is to is 4 اعلى for k= 1 to k= 1. 9= m(i, k]+ m(k+1, j]+ Pi-1 x Pk x Pi. for K=1 if 9< m[i,j]. m[i,j] = 9, Slivilzk. 9= m[1,1]+ m[2,2]+ 10x50x20 i=2., j=3 R= 2 9= m[2][2]+ m[3][2] +50x20x100 ù=3, j=4, R=3 9= m[3][3]+ m[4][4]+ 20×100 ×15. e=4 1 5=5. K24. 9=m[4](4]+m(5][5]+100x15x30 12=3 for i= 1 to i=3 Q =1

```
بات أن راح له
 RZI
                                              k=3
                       R=2
9=m[i][i]+
m[z][i]+
                   9=m[1][2]+
m[3][4]+
                                      9 = m[1][3] +
m[4][4] +
Poxpx14
   PoxPixPy
                      Pox (2×P4
                                       9=30000+
  = 0 + 45K+
                   9= 10000+
                                            15000
  7500
                        3000
                                          = 45000
   = 52500
                      = 43000
  1=2, 5=5
 K=2
                        k=3
                                               とこい
                                           m[2][4]+
m[5][5]+
9=M[2][2] +
M[3][5] +
                   9=m[2][3]+
m[4][5]+
    Pix lzxlo
                        Pix by X15
                                            P, Xly XPS
                                          = 45 K
  = 0 + 89 K
                    9=1.46+
  + 1500 × 20
 233K + 30000
                    42 1.41+1200x100
                                           9=4&K+
                       = 1.41 + 150000
                                              170021
 - Gak
                                            = 45kt
                      = 290L
                                               22500
                                             £675000
   2 = S
    for éz [
                to 1-1
   Q=1, j= 5
               k=2
                                k=3
K-1
                                                 Q=4.
                                           7= m[](4)+
9=m[1,1]+
              9=m[1,2]+
                             7= m[1,3]+
                m[305] +
lox/ex/5
  m[2,5]+
                                m[4,5]+
                                               mcosts)+
P.xlaxPs.
                                POXPE
```

