

Optimal Quantity of orders

Init.	Input			

OPTIMAL QUANTITY OF ORDERS

Calculate the Optimal quantity of orders, the supply limit, the optimal cost of management and the total supply cost of a product based on its unit price, the periodic request and on its fixed costs and variable costs.

Step	Procedure	Input
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1  Initialization                                     A
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2 Input management values

* Unit Price ? B

* Stock Cost ? B

(variable cost of detention
in Euros per unit per period)

* Orders Cost ? B

(Fixed cost of ordering)

* Request ? B

(Periodic request)

* Lead time ? B

```
(lead time between ordering
and receiving [# periods])
```

3 Printing results :

- Optimal quantity,

- Supply limit,

- Management cost,

- Supply cost

Supp. 1

in, en, ein, n

```

// ##### PRINT VALUES #####
LBL D' FIX 2 PRT INV FIX RTN

// ##### PRINT TITLES #####
LBL C' RC* 09 OP 01 OP 29 RC* 09 OP 02 OP 05 OP 29 RTN

// ##### PRINT LINE #####
LBL A' OP 01 OP 02 OP 03 OP 04 OP 05 OP 00 RTN

// ##### TITLE #####
LBL B' RCL 45 OP 01 RCL 46 OP 02 RCL 47 OP 03 RCL 48 OP 04 OP 05 RTN

// ##### INITIALIZATION #####
LBL A CMS OP 59 9 9 OP 43 2 OP 43 2 INV WRT ADV RCL 44 A' B' RCL 44 A' 05 STO
00 02 05 STO 09 07 01 OP 03
LBL DEG C' CLR R/S

// ##### INPUT VALUES #####
LBL B D' ST* 00 DSZ 00 DEG

// ##### COMPUTE #####
RCL 49 A' 7 2 OP 03 C' RCL 05 * RCL 02 * 02 = STO 08 / RCL 04 = SQR STO 06 D'
C' RCL 02 * RCL 01 = D' C' RCL 08 * RCL 04 = SQR STO 07 D' C' RCL 07 + RCL 05
* RCL 02 = D' RCL 44 A' CLR OP 43 ADV R/S

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L A B E L S
001 19 D'
009 18 C'
026 16 A'
041 17 B'
062 11 A
096 60 DEG
101 12 B

Adr	Branch.
A'	079 16 A'
A'	083 16 A'
A'	110 16 A'
A'	166 16 A'
B'	080 17 B'
C'	097 18 C'
C'	115 18 C'
C'	134 18 C'
C'	142 18 C'
C'	153 18 C'
D'	102 19 D'
D'	133 19 D'
D'	141 19 D'
D'	152 19 D'
D'	163 19 D'
DEG	105 97 DSZ

Reg.	Instr.
00	085 42 STO 103 72 ST*
01	138 43 RCL
02	119 43 RCL 135 43 RCL 160 43 RCL
04	127 43 RCL 146 43 RCL
05	116 43 RCL 157 43 RCL
06	131 42 STO
07	150 42 STO 154 43 RCL
08	124 42 STO 143 43 RCL
09	010 73 RC* 016 73 RC* 089 42 STO
44	077 43 RCL 081 43 RCL 164 43 RCL
45	042 43 RCL
46	046 43 RCL
47	050 43 RCL
48	054 43 RCL
49	108 43 RCL

Reg	qtecndEN_02
25	4131243700
26	3335241517
27	3637321526
28	0015323637
29	3235161735
30	0015323637
31	0000003517
32	3441173637
33	2717131600
34	3724301700
35	3233372430
36	4000343745
37	3641333327
38	4500272430
39	3013311322
40	0015323637
41	3641333327
42	0015323637
43	0000000000
44	6464646464
45	0000364133
46	3327450030
47	1331132217
48	3017313700
49	2020202020