

# 1 list

```
1.arr: WORD 0x100
2.dimN: WORD 2
3.dimM: WORD 2
4.dimElement: WORD 2
5.MUL: LD &1
6.ADD #1
7.ST &1
8.CLA
9.MUL LP: LOOP &1
10.JUMP MUL_ACT
11.JUMP MUL_RT
12.MUL ACT: ADD &2
13.JUMP MUL_LP
14.MUL RT: SWAP
15.ST &2
16.POP
17.SWAP
18.POP
19.RET
20.GET: LD &2
21.PUSH
22.LD $dimN
23.PUSH
24.CALL MUL
25.ADD &1
26.PUSH
27.LD $dimElement
28.PUSH
29.CALL MUL
30.ADD $arr
31.SWAP
32.ST &2
33.POP
34.SWAP
35.POP
36.RET
```

```
1.DEREF: WORD ?
2.X_1: WORD ?
3.X_2: WORD ?
4.i: WORD 0
5.j: WORD 0
6.STARTold: LD i
7.CMP dimN
8.BZS EXT
9.LD j
10.CMP dimM
11.BZS addI
12.LD i
13.PUSH
14.LD j
15.PUSH
16.CALL GET_ADDR
17.ST Deref
18.LD (DEREF)+
19.ST X_1
20.LD (DEREF)
21.ST X_2
22.LD (j)+
23.JUMP START
24.addI: LD (i)+
25.LD #0
26.ST j
27.JUMP START
28.EXT: HLT
```

```
1.arr: WORD 0x100
2.dimN: WORD 2
3. dimM: WORD 2
4.dimL: WORD 2
5.DEREF: WORD ?
6.i: WORD 0
7.j: WORD 0
8.k: WORD 0
9.START:LD i
10.CMP dimN
11.BZS EXT
12.LD j
13.CMP dimM
14.BZS addI
15.LD k
16.CMP dimM
17.BZS addJ
18.LD i
19.PUSH
20.LD j
21.PUSH
22.LD k
23.PUSH
24.CALL GET
25.ST Deref
26.LD (k)+
27.JUMP START
28.addI:LD (i)+
29.LD #0
30.ST j
31.JUMP START
32.addJ:LD (j)+
33.LD #0
34.ST k
35.JUMP START
36.EXT:HLT
```