

K1 2008 Z1

```

N=1
S=2
R=3
D=4
adrA=5
I=6
A=100
ORG 8
IN N
MOV adrA,#A
IN (adrA),N
MOV S,0
MOV I,0
PETLJA:DIV D,(adrA),3
MUL D,D,3
SUB R,(adrA),D
BEQ R,0,skok
ADD adrA,adrA,1
SUB N,N,1
BGT N,0,PETLJA
BEQ I,0,KRAJ
DIV S,S,I
OUT S
KRAJ:STOP
skok:ADD S,S,(adrA)
ADD adrA,adrA,1
ADD I,I,1
SUB N,N,1
BGT N,0,PETLJA
DIV S,S,I
OUT S
STOP

```

K1 2008 Z2

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A=1
B=2
P=3
C=4
T=5

ORG 8

POCETAK:IN A
MOV B,0
MOV T,A
BEQ A,0,KRAJ
BGT 0,A,POCETAK
JSR PP
OUT B
BEQ A,A,POCETAK
KRAJ:STOP

PP:DIV P,T,10
MUL P,P,10
SUB C,T,P
ADD B,B,C

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DIV T,T,10
BGT T,0,PP
RTS

```

K1 2007 Z1

```

D=1
adrN=2
adrN1=3
adrN2=4
S=5
REZ=6

ORG 8 ; TODO: Adjust to make room for static data.
IN D
BGT 0,D,KRAJ
MOV adrN,100
IN (adrN),D
MOV adrN,102
MOV adrN1,101
MOV adrN2,100
SUB D,D,2
PETLJA:ADD S,(adrN1),(adrN2)
BEQ (adrN),S,skok
MOV REZ,0
OUT REZ
STOP
skok:MOV REZ,1
SUB D,D,1
ADD adrN,adrN,1
ADD adrN1,adrN1,1
ADD adrN2,adrN2,1
BGT D,0,PETLJA
OUT REZ
KRAJ:stop

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K1 2007 Z2

```

A=1

B=2
K=3
OS=4

ORG 8

IN A
IN B
BEQ B,0,KRAJ
JSR PP
OUT K
OUT OS

PP:DIV K,A,B
MUL OS,K,B
SUB OS,A,OS
RTS
KRAJ:STOP

```

K1 2005 Z1

```
N=1
S=2
R=3
D=4
adrA=5
I=6
adrB=7
A=100
B=200
ORG 8
IN N
MOV adrA,#A
IN (adrA),N
MOV adrB,#B
MOV S,0
MOV I,0
petlja:DIV D,(adrA),3
MUL D,D,3
SUB R,(adrA),D
BEQ R,0,upisi
ADD adrA,adrA,1
SUB N,N,1
BGT N,0,PETLJA
MOV adrB,#B
OUT (adrB),I
STOP
upisi:MOV (adrB),(adrA)
ADD adrA,adrA,1
ADD adrB,adrB,1
ADD I,I,1
SUB N,N,1
BGT N,0,petlja
MOV adrB,#B
OUT (adrB),I
STOP
```

K1 2005 Z2

```
N=1
X=2
S=3

ORG 8

POCETAK:IN N
IN X
BEQ X,0,KRAJ
JSR STEP
OUT S
BEQ N,N,POCETAK
KRAJ:STOP

STEP:MOV S,1
BEQ N,0,GOTOVO
PTELJA:MUL S,S,X
SUB N,N,1
BGT N,0,PETLJA
GOTOVO:RTS
```