MVI E 00h

MVI D 3Ah

MVI B 3Ah

L1: MOV A B

CALL BINDEC

L2: INR B

CALL BINDEC

MOV A B

CPI 3Bh

JNZ L2

MVI B 00h

INR D

CALL BINEC

MOV A D

CPI 3Bh

JNZ L1

MVI D 00h

CALL BINEC

INR E

CALL BIND

MOV A E

CPI 0Ch

JNZ L1

MVI E 00h

JMP L1

L3: HLT

BINDEC: MVI C 00h

MOV A B

CPI 64h

JNC L5

L4: SUI 0Ah

INR C

JNC L4

DCR C

ADI 0Ah

MOV H A

MOV A C

RLC

RLC

RLC

RLC

ANI F0h

MOV C A

MOV A H

ADD C

STA 4200h

L5: RET

BINEC: MVI C 00h

MOV A D

CPI 64h

JNC L6

L7: SUI 0Ah

INR C

JNC L7

DCR C

ADI 0Ah

MOV H A

MOV A C

RLC

RLC

RLC

RLC

ANI F0h

MOV C A

MOV A H

ADD C

STA 4201h

L6: RET

BIND: MVI C 00h

MOV A E

CPI 64h

JNC L10

L11: SUI 0Ah

INR C

JNC L11

DCR C

ADI 0Ah

MOV H A

MOV A C

RLC

RLC

RLC

RLC

ANI F0h

MOV C A

MOV A H

ADD C

STA 4202h

L10: RET