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9a. Searching

PROGRAM

```
0400  MOV  SI,1200
0403  MOV  CL, [SI]
0405  INC   SI
0406  MOV  BL, [1300]
040A  MOV  AL, [SI]
040C  CMP  BL, AL
040E  JZ    0417
0410  INC  SI
0411  DEC  CL
0413  JZ    041C
0415  JNZ  0406
0417  MOV  [1400],01
041C  HLT
```

OUTPUT

SOURCE

```
1200  04
1201  02
1202  05
1203  06
1204  07
```

```
1300  02
```

DESTINATION

```
1400  01
```