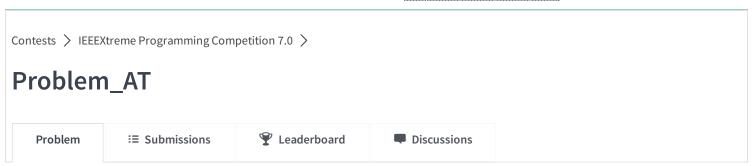


SUBMISSIONS





The contest is in progress. It ends about an hour from now.



The following 8086 code gets input in the AL register and computes a function in BL.

| 0100 E2FE | L00PW | 0100 |
|-------------|-------|---------|
| 0102 50 | PUSH | AX |
| 0103 5E | P0P | SI |
| 0104 89C3 | MOV | BX,AX |
| 0106 D1E8 | SHR | AX,1 |
| 0108 D1D1 | RCL | CX,1 |
| 010A 75FA | JNZ | 0106 |
| 010C 91 | XCHG | AX,CX |
| 010D BA0102 | MOV | DX,0201 |
| 0110 D1C2 | ROL | DX,1 |
| 0112 D1EB | SHR | BX,1 |
| 0114 D1D1 | RCL | CX,1 |
| 0116 38DE | CMP | DH,BL |
| 0118 7EF6 | JLE | 0110 |
| 011A 38D3 | CMP | BL,DL |
| 011C 7E06 | JLE | 0124 |
| 011E D1CB | ROR | BX,1 |
| 0120 D1D1 | RCL | CX,1 |
| 0122 D1C3 | ROL | BX,1 |
| 0124 28D4 | SUB | AH,DL |
| 0126 4A | DEC | DX |
| 0127 20D0 | AND | AL,DL |
| 0129 21F2 | AND | DX,SI |
| 012B 38C2 | CMP | DL,AL |
| 012D 18E3 | SBB | BL,AH |
| | | |

HackerRank

Understand what it does, and generalize it for arbitrary long numbers.

Sample Input 1:

33

Sample Output 1:

12

Problem Author: IEEE



This is a beta version. Join us on IRC at #hackerrank on freenode for hugs or bugs.

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