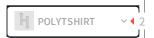


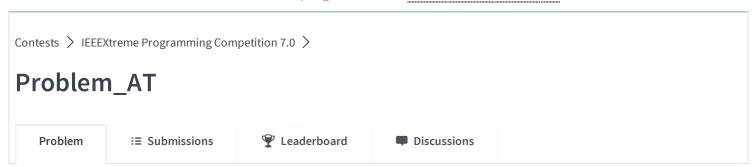
CHALLENGES

SUBMISSIONS

LEADERBOARD



The contest is in progress. It ends about 9 hours from now.



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

0100	E2FE	LOOPW	0100
0102	50	PUSH	AX
0103	5E	POP	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

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

Sample Input 1:

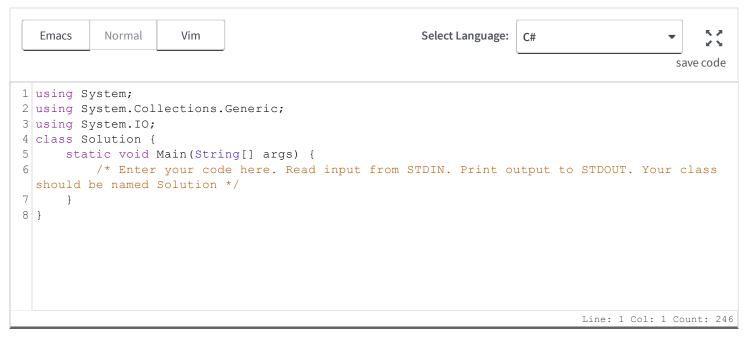
33

Sample Output 1:

12

Problem Author: IEEE

Suggest Edits



☐ Use a custom test case

Upload Code as File

Compile & Test

Submit Code

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

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