X DNI Letter
X points

Introduction

A DNI is composed of a number (8 digits) and a letter from A to Z.

To calculate the letter of a DNI you need to get the remainder of the number divided by 23 and then substitute it using the following table:

REMAINDER		0	1	2	3	4	5	6	7	8	9	10	11
LETTER		T	R	W	A	G	M	Y	F	P	D	X	B
REMAINDER	12	13	14	15	16	17	18	19	20	21	22
LETTER	N	J	Z	S	Q	V	H	L	C	K	E

Given a number calculate the corresponding letter.

Input

The number part of a DNI (a single number)

Output

The corresponding letter

Example 1

Input

12345678

Output

Letter: Z

Example 2

Input

26841269

Output

Letter: Q