

Southeastern European Regional Programming Contest
Bucharest, Romania – Vinnytsya, Ukraine
October 22, 2016

Problem F
Letters

Input File: F.in
Output File: standard output
Time Limit: 0.2 seconds (C/C++)
Memory Limit: 256 megabytes

We build the infinite sequence of uppercase letters (A-Z) which starts with single-letter strings (A, B, …, Z), continues with two-letter strings (AA, AB, …, AZ, BA, BB, …, BZ, …, ZZ), then three-letter strings and so on. The same-length strings are ordered lexicographically. We are interested in finding which letter sits at a given index in the sequence.

Input
The letter index, ranging between 0 and $2*10^9$.

Output
The letter at the specified index.

Sample input	Sample output
0	A
25	Z
50	A
100	B
250	E
500	J
1000	S