Submission

ID	DATE	PROBLEM	STATUS	СРИ	LANG	
	TEST CASES					
8199999	02:56:15	How Many Digits?	✓ Accepted	0.05 s	C++	

Submission contains 1 file: download zip archive

FILENAME	FILESIZE	SHA-1 SUM	
howmanydigits.cpp	829 bytes	9a1e7f1aef3bd987a3089be071e8fa4764c3db0b	download

Edit and resubmit this submission.

howmanydigits.cpp

```
1 #include <bits/stdc++.h>
 3 using namespace std;
 5 #define INF 999999
7 vector<int> digitos(1000001, 0);
9 void llenar(){
10
           tam = 0;
           actTam = 0;
13
```

```
long double factorACtual = 1;
15
16
       digitos[0] = 1;
17
18
       for (int i = 1; i <= 1000000; i++) {
19
20
            if (i == 10 || i == 100 || i == 1000 || i == 10000 || i == 100000) {
21
22
                actTam++;
23
            }
24
            long double shortFactor = (long double)i / (pow(10, actTam));
25
            factorACtual *= shortFactor;
26
27
            tam += actTam;
28
            if (factorACtual > 10) {
29
                factorACtual /= 10;
30
31
                tam++;
32
33
            digitos[i] = tam + 1;
34
35 }
36
37 int main(){
38
       1lenar();
39
40
41
       int num;
       while (cin >> num) {
42
            cout << digitos[num] << endl;</pre>
43
44
45
       return 0;
46 }
```

14