

Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8200043	03:14:31	Three Powers	✓ Accepted	0.26 s	C++
	✓✓✓				

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FILENAME	FILESIZE	SHA-1 SUM	
threepowers.cpp	979 bytes	176ca94e336f9c231e2bc17212b82910e6f9cd94	download

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threepowers.cpp

```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5 vector<string> arr;
6
7 #define INF 99999
8
9 string mul(string pow, int n);
10
11     vector<string>& S, int max) {
12     .ng pow = "1";
13     for (int i = 0; i < max; pow = mul(pow, 3), ++i){
```

```

14         S.push_back(pow);
15     }
16 }
17
18 void caso(unsigned long long n) {
19     unsigned long long on = n;
20     cout << "{ ";
21     long long index = 0;
22     while (n > 0) {
23         if (n % 2 == 1) {
24             cout << arr[index];
25             if (n > 2) cout << ", ";
26         }
27         n /= 2;
28         ++index;
29     }
30
31     if (on != 0)
32         cout << ' ';
33     cout << "}\n";
34 }
35
36 int main(){
37
38     f1(arr, 3000);
39     unsigned long long n;
40
41     cin >> n;
42     do{
43         caso(n - 1);
44         cin >> n;
45     }while (n != 0);
46     return 0;
47 }
48
49 string mul(string pow, int n) {
50     int x = 0;
51     string rstring = "";
52     for (int i = pow.length() - 1; i >= 0; --i) {
53         x += n * (int)(pow.at(i) - '0');
54         rstring = to_string(x % 10) + rstring;
55         Help x /= 10;
56     }
57     if (x != 0) rstring = to_string(x % 10) + rstring;

```

```
58     return rstring;
59 }
```