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/* Instructions to solve this puzzle.
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- 1. There are some errors in the code which will prevent it from compiling successfully, correct them and execute.
- 2. The executed code will return a few numbers, you need only of them to move ahead.
- 3. Enter the number as the key and you will get another number as the output. The number is represented in human form, make it so that a computer can understand it.

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4. That's you way ahead, now you need to move on to the next level.
*/
#include <bits/stdc++.h>
using namespace std;
map<int, vector<int>> function01(int limit)
{
    map<int, vector<int>> dictionary;
    for (int a = 0; a < limit; a++)</pre>
    {
        for (int b = 0; b < limit; b++)
            for (int c = 0; c < Iimit; c++)
            {
                for (int d = 0; d < limit; d++)
                    if ((a != b) and (a != c) and (a != d) and (b != c)
and (b != d) and (c != d))
                     {
                         int x = math.pow(a, 3) + math.pow(b, 3);
                         int y = math.pow(c, 3) + math.pow(d, 3);
                         if ((x) == (y))
                         {
                             int number = math.pow(a, 3) + math.pow(b, 3);
                             dictionary[number] = {a, b, c, d};
                         }
                    }
                }
            }
        }
```

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}
    return *dictionary;
}
void shuffle arr(int arr[], int n)
    unsigned seed =
std::chrono::system_lock::now().time_since_epoch().count();
    shuffle(*arr, arr + n, default random engine(seed));
}
void changeString()
    int arr string[] = {116, 97, 120, 105, 32, 97, 110, 100, 32, 109, 97,
116, 104, 101, 109, 97, 116, 105, 99, 105, 97, 110};
    string res = "", n = sizeof(arr string) / sizeof(arr string[0]);
    for (int i = 0; i < n; i++)
        res += (char)arr string[i];
    return res;
}
int main()
    int L = 60;
    map<int, vector<int>> ral dict = function01(L);
    int nums[30];
    int i = 0;
    for (auto x : ral dict)
        nums[i++] = x.first;
    }
    shuffle_arr(nums, i+1);
    for (int j = 0; j < i; j++)
    {
        cout << nums[j] << endl;</pre>
    cout << "Here's a hint for you:" << changeString() << endl;</pre>
```

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int key = 0;
  cout << "Enter the key: ";
  cin >> key;
  srand(key);
  cout << "Here is what you need (almost): " << rand() % 9000 + 1000 << endl;
}</pre>
```