**Sagar's Learning**

Attempted by: **1216**

/

Accuracy: **73%**

/

Maximum Score: **20**

/

16 Votes

Tag(s):

Easy

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

Sagar is good mathematician as well as CSE student and has learned few concepts such as **HCF and LCM**. Now, to test his learning , his room-mate Mohith gave him a number **N** and asked him to give biggest possible **HCF** that can be obtained by 3 numbers less than or equal to **N** (All 3 numbers need to be distinct).

Help Sagar to find the solution.

**Constraints**

**1<=T<=10**

**1<=N<=10^18**

**Input**

First line contains an integer **T**,denoting the number of testcases, Next **T** line follows number **N**.

**Output**

Output the answer in next line, if Multiple answer are possible then print the smallest three numbers in increasing order and if no solution, then print **-1**

**SAMPLE INPUT**

2

2

5

**SAMPLE OUTPUT**

-1

1 2 3

**Time Limit:**1.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

#include <iostream>

using namespace std;

int main()

{

int t;

long long int n,j;

cin>>t;

while(t--)

{

cin>>n;

if(n<=2)

cout<<"-1"<<endl;

else

{

j=n/3;

cout<<j<<" "<<j\*2<<" "<<j\*3<<endl;

}

}

}