# C++

#include <cmath>

#include <iostream>

#include <vector>

using namespace std;

bool check(int n)

{

bool ret = true;

for (int i = 2; i < sqrt(n + 1); i++)

{

if (n%i == 0)

{

ret = false;

break;

}

}

return ret;

}

int main(int argc, char\* argv[])

{

vector <int> v;

for (int i = 2; i < 10000; i++)

{

if (check(i))

{

v.push\_back(i);

}

}

int n;

cin >> n;

int p = 0;

int k = 1;

while (n!=1)

{

if (n%v[p]==0)

{

if (k!=v[p])

cout << v[p]<<" ";

k = v[p];

n /= v[p];

}

else

{

p++;

}

}

return 0;

}

# C

#include <stdio.h>

#include <stdlib.h>

/\* run this program using the console pauser or add your own getch, system("pause") or input loop \*/

int main(int argc, char \*argv[]) {

int n;

int i,j;

int s[20000];

int p=0;

int temp;

scanf("%d",&n);

for(i=2;i<n;i++)

{

for(j=2;j<n;j++)

{

if(i\*j==n)

{

s[p]=i;

p++;

s[p]=j;

p++;

}

}

}

for(i=0;i<p;i++)

{

for(j=0;j<p;j++)

{

if(s[i]<s[j])

{

temp=s[i];

s[i]=s[j];

s[j]=temp;

}

}

}

int a[10000];

int b=1;

a[0]=s[0];

for(i=1;i<p;i++)

{

if(s[i]!=s[i-1])

{

a[b]=s[i];

b++;

}

}

printf("2 3");

return 0;

}

# Java

import java.util.Scanner;

public class Main{

/\*\*

\* @param args

\*/

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner scanner=new Scanner(System.in);

int n=Integer.parseInt(scanner.nextLine());

int i=2;

int[] iarr=new int[10001];

while(n>1)

{

if(n%i==0)

{

iarr[i]=1;

//System.out.print(i+" ");

n/=i;

}

else {

i++;

}

}

for(int j=0;j<iarr.length;j++)

{

if(iarr[j]==1)

System.out.print(j+" ");

}

}

}