#include <stdio.h>

#include <iostream>

#include <fstream>

#include <iomanip>

#include <stdlib.h>

#include <stdio.h>

#include <unistd.h>

#include <windows.h>

#include <cmath>

#include <string>

#include <sstream>

#include <vector>

using namespace std;

bool prime(int);

bool prime(int x)

{

if (x<= 1)

{

return false;

}

else if ( x <= 3)

{

return true;

}

else if ( x%2 == 0 || x%3 == 0 )

{

return false;

}

int i = 5;

while( i\*i <= x)

{

if ( x%i == 0 || x%(i+2) == 0)

{

return false;

}

i = i +6;

}

return true;

}

int main ()

{

int sum = 0;

int i =1 ;

int tot\_primes;

cout<<"How many primes do you want to show?"<<endl;

cin>>tot\_primes;

while( sum < tot\_primes)

{

if(prime(i) == true)

{

sum++;

cout<<"Prime "<<sum<<": "<<i<<endl;

}

i++;

}

return 0;

}