// Prime number or no

#include<stdio.h>

void main()

{

int n,i,c=0;

scanf("%d",&n);

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

{

if(n%i==0)

c++;

}

if(c==0)

printf("Prime number");

else

printf("Not a prime number");

}

//Prime numbers within a range

#include<stdio.h>

int main()

{

int n,i,c,range;

scanf("%d",&range);

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

{

c=0;

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

{

if(n%i==0)

c++;

}

if(c==0)

printf("%d ",n);

}

}

// Sum of prime numbers within a range

#include<stdio.h>

int main()

{

int n,i,c,s=0,range;

scanf("%d",&range);

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

{

c=0;

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

{

if(n%i==0)

c++;

}

if(c==0)

{

s=s+n;

printf("%d ",n);

}

}

printf("\n %d",s);

}

// nth prime number

#include<stdio.h>

int main()

{

int n,i,c,s=0,range,count=0,k;

scanf("%d",&k);

for(n=2;count<k;n++)

{

c=0;

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

{

if(n%i==0)

c++;

}

if(c==0)

{

count++;

}

}

printf("%d prime number is=%d",count,n-1);

}

// program for nth fibanocci number and count of it

#include<stdio.h>

void main()

{

int n,f1=0,f2=1,f3,i;

scanf("%d",&n);

if(n==1)

printf("%d",f1);

else if(n==2)

{

printf("%d",f2);

}

for(i=3;i<=n;i++)

{

f3= f1+f2;

f1=f2;

f2=f3;

}

printf("%d ",f3);

}