DAY 1 - TIMECOMPLEXITY PROGRAM

```
#include<stdio.h>
void function(int min);
int main(){
  int n;
  scanf("%d",&n);
  function(n);
  return 0;
}
void function(int n){
  int count=0;
  int i=1,s=1;
  count++;
  count++;
  while(s \le n){
    count++;
    i++;
    count++;
    s+=i;
    count++;
  }
  count++;
  printf("%d",count);
}
```

```
D:\Projects\c program\timecc \timecc \
```

```
#include<stdio.h>
void function(int min);
int main(){
  int n;
  scanf("%d",&n);
  function(n);
  return 0;
}
void function(int n){
  int count=0;
  if(n==1){
    count++;
    count++;
  }
  else{
    count++;
    for(int i=1;i<=n;i++){
```

```
count++;
for(int j=1;j<=n;j++){
    count++;
    count++;
    count++;
    break;
    }
}
count++;</pre>
```

```
#include<stdio.h>
int factor(int n);
int count=0;

int main(){
   int n;
   scanf("%d",&n);
```

```
factor(n);
  printf("%d",count);
  return 0;
}
int factor(int n){
  int i;
  count++;
  for(i=1;i<=n;i++){
    count++;
    if(n%i==0){
      //print present here
    }count++;
  }
  count++;
  return 0;
}
```

```
int count=0:

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12
26
------
Process exited after 68.7 seconds with return value 0
Press any key to continue . . .
```

PROGRAM 4

#include<stdio.h>

```
void function(int n);
int main(){
  int n;
  scanf("%d",&n);
  function(n);
  return 0;
}
void function(int n){
  int count=0;
  int c=0;
  count++;
  for(int i=n/2;i<n;i++){
    count++;
    for(int j=1;j<n;j=2*j){
      count++;
      for(int k=1;k<n;k=k*2){
        count++;
        C++;
        count++;
      }count++;
    }count++;
  }count++;
  printf("%d",count);
}
```

```
#include<stdio.h>
void reverse(int n);
int main(){
  int n;
  scanf("%d",&n);
  reverse(n);
  return 0;
}
void reverse(int n){
  int count =0;
  int rev=0,remainder;
  count++;
  while(n!=0){
    count++;
    remainder=n%10;
    count++;
    rev=rev*10+remainder;
    count++;
    n=n/10;
```

```
count++;
}
count++;
count++; //print
printf("%d",count);
}
```