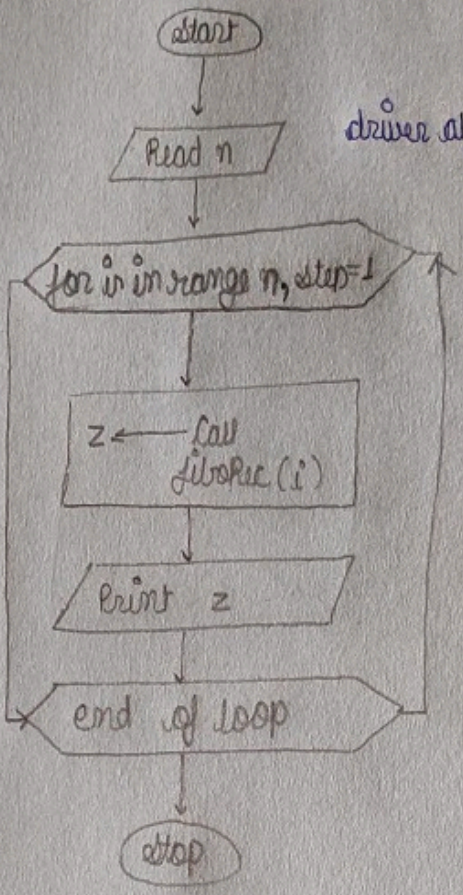
start

① Read n

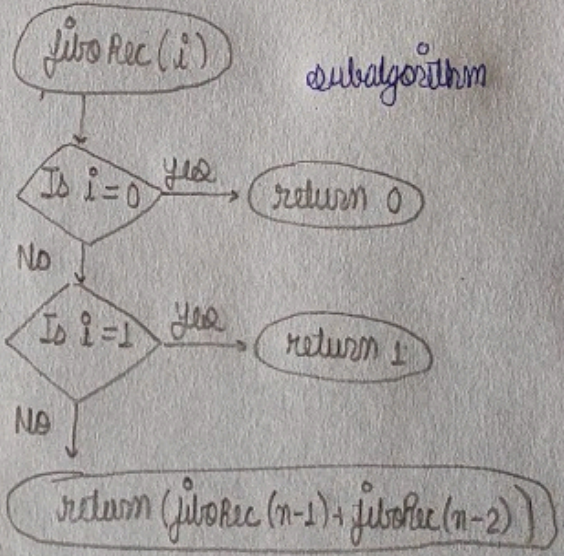
② for i in range n
    z ← call fiboRec(i)
    Print z

③ int fiboRec(n):
    if (n=0) returns 0
    if (n=1) returns 1
    returns (fiboRec(n-1) + fiboRec(n-2))

Stop




```
#include <stdio.h>
int fiboRec(int n)
{  if(n==0) return 0;
   if(n==1) return 1;
   return (fiboRec(n-1)+fiboRec(n-2));
}
int main()
{ int n;
  printf("Enter the number:");
  scanf("%d",&n);
  printf("The series upto %d is :\n",n);
  for(int i=0; i<=n; i++)
  { int z=fiboRec(i);
    printf("%d \t",z);
  }
  return 0;
}
```



Start

① Read n.

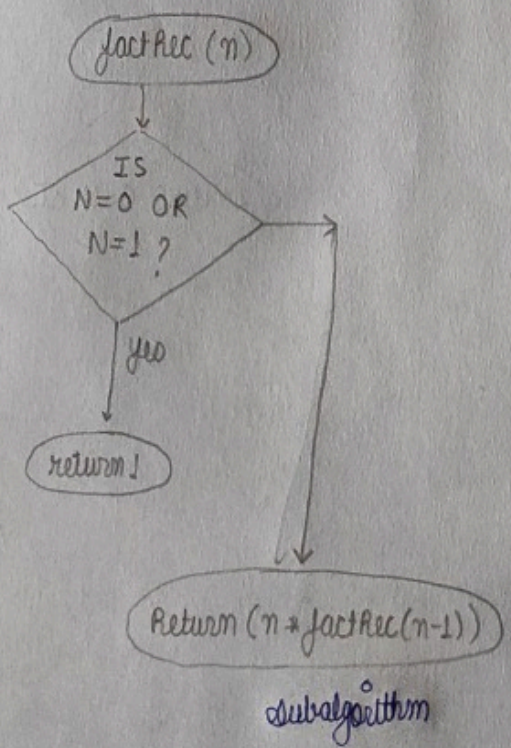
② Print factRec(n).

③ int factRec(n):

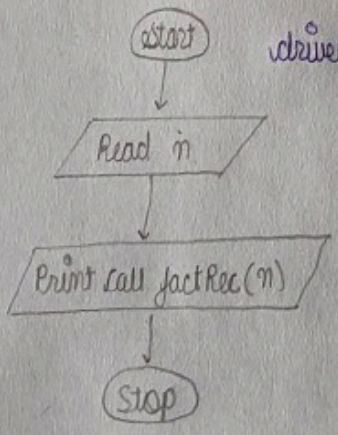
```
if(n==0||n==1):
    return 1
return (n*factRec(n-1))
```

④ Stop

```
#include <stdio.h>
int fibRec (int n)
{ if(n==0||n==1) return 1;
  return (n*fibRec(n-1));
}
int main()
{ int n;
  printf("Enter the number :");
  scanf("%d", &n);
  printf("The factorial of %d is %d \n", n, fibRec(n));
  return 0;
}
```



subalgorithm



driver algorithm

start

① Read n_1, n_2

② Print call gcdRec (n_1, n_2)

③ int gcdRec (n, m):

```
if (n=0):
    return m
return gcdRec (m-n, n).
```

Stop

```
#include <stdio.h>
int gcdRec ( int n , int m)
{  if (n == 0) return m;
   return gcdRec (m-n , n);
}

int main()
{
   int n1, n2;
   printf("Enter the first number : ");
   scanf ("%d", &n1);
   printf("Enter the second number:");
   scanf ("%d", &n2);
   printf("The gcd of the two number is %d", gcdRec (n1, n2));
   return 0;
}
```