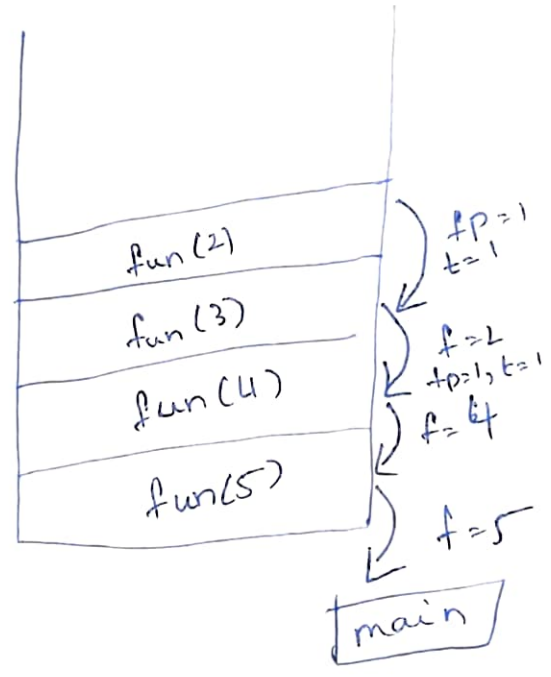Code:

```
4. import java.io.*
   class GFG {
   static int fp = 15;
   static int fun ( int n)
   {
   int t, f;

   if ( n <= 2 )
   {
   fp = 1;
   return 1;
   }
   t = fun ( n - 1);
   f = t + fp;
   fp = t;
   return f;
   }
   public static void main (String[] args)
   {
   System.out.println(fun(5));
   }
   }
```

Predict the output of this program, with call stack behavior.

fun (2)

fun (3)

fun (4)

fun(5)

$fp = 1$
$t = 1$

$f = 2$
$fp = 1, t = 1$
$f = 4$

$f = 5$

main

∴ out put is 5