|  |  |  |
| --- | --- | --- |
| **OUTPUT:** | public class Recursion\_Exercise\_2 {  public static void main(String[] args) {  System.out.println(  "End result: " + foo(5));  }  public static int foo(int f) {  if (f >= 8)  return f;  System.out.println("Handed " + f);  int i;  if (f % 2 == 0)  i = foo(f + 2);  else  i = foo(f + 1);  System.out.println(  "Return value: " + i);  return i;  }  } | ***These extra, italicized copies  aren't 'real' – they're just here so it's easier for you to visualize the recursion as if it happened in multiple, separate methods***    *public static int foo(int f) {*  *if (f >= 8)*  *return f;*  *System.out.println("Handed " + f);*  *int i;*  *if (f % 2 == 0)*  *i = foo(f + 2);*  *else*  *i = foo(f + 1);*  *System.out.println(*  *"Return value: " + i);*  *return i;*  *}* |
| *public static int foo(int f) {*  *if (f >= 8)*  *return f;*  *System.out.println("Handed " + f);*  *int i;*  *if (f % 2 == 0)*  *i = foo(f + 2);*  *else*  *i = foo(f + 1);*  *System.out.println(*  *"Return value: " + i);*  *return i;*  *}* | *public static int foo(int f) {*  *if (f >= 8)*  *return f;*  *System.out.println("Handed " + f);*  *int i;*  *if (f % 2 == 0)*  *i = foo(f + 2);*  *else*  *i = foo(f + 1);*  *System.out.println(*  *"Return value: " + i);*  *return i;*  *}* |