

Exercise 6: What will be the output of the following C programs?

A) The code will output:

Hi. This is case 0

Hi. This is case 1

Case 2 does not output because the **break** statement prevents case 2 from automatically outputting. Then the while loop terminates since i is not less than 2 after case 1 ( $i = 2$ ).

The while loop will iterate once. Since there is no break statement for case 0, i increments by 1 and case 1 automatically runs.

B) The code will output:

Hi. This is case 0

Hi. This is case 1

Case 2 does not output because the while loop terminates since after case 1,  $i = 2$ .

The while loop will iterate twice. There are break statements preventing the rest of the cases from automatically running. That means case 0 runs in the first iteration, then case 1 runs in the second iteration.