



THE ITERATIVE PROCESS

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THE ITERATIVE PROCESS

CODE SEGMENTS INFINITE LOOP ACTIVITY

Read each code segment and write the output. (Write INFINITE LOOP if the loop does not terminate).

CODE SEGMENT 1

```
var1 ← 3
REPEAT UNTIL (var1 > 10) {
    var1 ← var1 + 2
}
DISPLAY (var1)
```

Code Segment 1 Output (write answer below)

CODE SEGMENT 2

```
var1 ← 2
REPEAT UNTIL (var = 10) {
    var1 ← var1 + 3
}
DISPLAY (var1)
```

Code Segment 2 Output (write answer below)



CODE SEGMENT 3

```
var1 ← 2
count ← 0
REPEAT UNTIL (count = 3) {
    var1 ← var1*(-1)
    DISPLAY (var1)
    count ← count +1
}
```

Code Segment 3 Output (write answer below)

CODE SEGMENT 4

```
var1 ← 0
var2 ← 12
var3 ← 3
REPEAT UNTIL (var1 > var2) {
    var1 ← var1 + var3
}
DISPLAY (var1)
```

Code Segment 4 Output (write answer below)



CODE SEGMENT 5

```
var1 ← "AP CSP"
count ← 0
REPEAT UNTIL (count = LENGTHofSTRING(var1) ) {
  count ← count + 1
  IF (var1[count] = "P") {
    DISPLAY ("Found a P at index " + count)
  }
}
```

Code Segment 5 Output (write answer below)

CODE SEGMENT 6

```
var1 ← "Mississippi"
var2 ← "h"
index ← 0
count ← 0
REPEAT UNTIL (index = LENGTHofSTRING(var1) ) {
  index ← index +1
  IF (var[index] = var2) {
```



```
        count ← count + 1
    }
}
IF (count > 0) {
    DISPLAY ("h is found in the word!")
}
ELSE {
    DISPLAY ("Not found.")
}
```

Code Segment 6 Output (write answer below)

CODE SEGMENT 7

What would be accomplished by running the following code segment?

```
var1 ← "Yes"
score ← 0
REPEAT UNTIL (var1 ≠ "Yes") {
    score ← score + 2
    DISPLAY ("Enter more scores?")
    var1 ← INPUT()
}
DISPLAY (score)
```

Code Segment 7 (write answer below)



CODE SEGMENT 8

What would be accomplished by running the following code segment?

```
var1 ← "Yes"
total ← 0
REPEAT UNTIL (var1 ≠ "Yes") {
  DISPLAY ("Enter a number.")
  var2 ← INPUT()
  total ← total + var2
  DISPLAY ("Enter more numbers?")
  var1 ← INPUT()
}
DISPLAY (total)
```

Code Segment 8 (write answer below)

CODE SEGMENT 9

What would be accomplished by running the following code segment?

```
var1 ← "No"
REPEAT UNTIL (var1 ≠ "No") {
  DISPLAY ("Enter a number.")
  var2 ← INPUT()
  IF (var2 > 10) {
    var1 ← "Yes"
  }
}
DISPLAY (var2)
```

Code Segment 9 (write answer below)



WHAT TO SUBMIT

Students should turn in their paper for grading and/or verification of completion.

