

2. Selection and Iteration

Starter Quiz · 课前小测

AP Computer Science A

Name: _____ Score: _____

1. Choosing which code to run based on a condition is called...

- ☐ selection
- ☐ repetition
- ☐ sequence
- ☐ an error

2. Which operator tests whether two values are equal?

- ☐ ==
- ☐ =
- ☐ !=
- ☐ <=

3. In an if-else statement, how many of the two branches run?

- ☐ exactly one
- ☐ both
- ☐ neither
- ☐ it depends on braces

4. In an else-if ladder, which condition's block runs?

- ☐ the first one that is true
- ☐ the last one that is true
- ☐ all true ones
- ☐ the shortest one

5. a && b is true when...

- ☐ both a and b are true
- ☐ at least one is true
- ☐ neither is true
- ☐ a is false

6. Outer loop runs 3 times, inner runs 3 times each. How many times does the inner body run?

7. With `int age = 18;`, the expression `age > 18` is true.

- ☐ True ☐ False

8. `int i=1, sum=0; while (i<=5){ sum+=i; i++; }` What is sum at the end?

9. How many times does the body of `for (int i = 0; i < 5; i++)` run?

10. In nested loops, the inner loop runs fully for every single pass of the outer loop.

- ☐ True ☐ False

AP Computer Science A

1. selection

Selection (if) picks a path; repetition (loops) repeats a block.

2. ==

== tests equality; = assigns.

3. exactly one

Exactly one branch runs based on the condition.

4. the first one that is true

Java takes the first true condition top to bottom.

5. both a and b are true

&& (AND) needs both operands true.

6. 9

$3 \times 3 = 9$.

7. False

18 is not greater than 18; age $\geq$ 18 would be true.

8. 15

$1+2+3+4+5 = 15$.

9. 5

i takes 0,1,2,3,4 $\rightarrow$ 5 passes.

10. True

That's why the inner body runs outer $\times$ inner times.