

① which loop is guaranteed to execute at least once?

- A. for
- B. while.
- ☒ C. do while.
- D. foreach

② How many times will this loop run?

```
for (int i = 1; i <= 5; i++) { }
```

- A. 4
- ☒ B. 5
- C. 6
- D. infinite

③ which of these is an entry-controlled loop?

- ☒ A. while
- B. do-while.
- C. goto
- D. break.

④ what will the output be?

```
int i = 0;
while (i < 3) {
    Print("%d", i);
    i++;
}
```

- ☒ A. 0 1 2
- B. 1 2 3
- C. 0 0 1
- D. 0 1 3

- 5) which Keyword stops the current iteration and jumps to the next?
- A. exit
 - B. break
 - C. stop
 - ☒ D. continue.
- 6) which loop is best when the number of iterations is known?
- A. while.
 - B. do-while.
 - ☒ C. for
 - D. nested loop.
- 7) what does the following code print?
- ```
for (int i=5; i>0; i--) {
 printf("%d", i);
}
```
- A. 1 2 3 4 5
  - ☒ B. 5 4 3 2 1
  - C. 5 4 2 1
  - D. Error.
- 8) what type of loop is allowed inside another loop?
- A. only for inside for
  - B. only while inside for
  - C. only do-while inside while
  - ☒ D. All types (nested loops)

⑨ what is the output?

```
int i=1;
while (i<=5)
 i++;
Print ("%d", i);
```

A. 5

✓ B. 6

C. loop never ends

D. 1

⑩ what will happen?

```
for (;;) {}
```

A. Syntax error

B. executes 1 time

✓ C. infinite loop.

D. Depends on compiler.

⑪ which statement exits a loop completely?

✓ A. break.

B. continue.

C. skip

D. switch.

⑫ output?

```
for (int i=1; i<5; i+=2)
```

```
 printf ("%d", i);
```

A. 1 2 3 4

B. 1 3 5

✓ C. 1 3

D. 2 4

⑬ which loop executes at least one time?

- A. for
- B. while
- ✓ C. do-while.
- D. none.

⑭ what is "nested loop"?

A. Loop with multiple conditions.

✓ B. Loop inside another loop

C. Loop without condition.

D. Loop outside a function.

⑮ output?

```
int sum=0;
for(int i=1; i<=3; i++)
 sum+=i;
printf("%d", sum);
```

A. 3

✓ B. 6

C. 10

D. 1

⑯ which loop is better for menu-driven programs?

A. for

B. while

✓ C. do-while.

D. nested.



- ⑦ what happens if loop conditions is always true?
- A. compilation error
  - B. program ends normally
  - ✓ C. infinite loop
  - D. Loop runs twice.
- ⑧ what does continue do?
- A. Ends loop
  - ✓ B. skips current iteration.
  - C. Exits program.
  - D. Restarts loop from beginning
- ⑨ Identify the infinite loop.
- A. for(i=0; i<10; i++)
  - B. while (i>10)
  - ✓ C. do { } while(1);
  - D. for(i=1; i--)
- ⑩ what is the output?

```
int i=0;
```

```
do {
```

```
 printf("%d", i);
```

```
 i++;
```

```
} while (i<2);
```

- A. 0
- ✓ B. 0 1
- C. 1 2
- D. No output