Consider the array defined below:
int phoneno[5];
Which one of the following assignment is wrong?

(Choose one)

- phoneno[1] = 1111;
- phoneno[2] = 2222;
- phoneno[2] = -2222;
- phoneno[5] = 5555;

Quiz

00:22

Which is the best way to make the loop exit in the middle?

(Choose one)

- use goto statement
- use break statement
- use return statement
- use recursion

00:30

Which among the following is a good code layout?

(Choose one)

- float Calculate_Interest (
  double principal,
  float term_yrs,
  float rate_of_interest)
- float Calculate_Interest (double principal, float term_yrs, float rate_of_interest)
- float
  Calculate_Interest
  (
  double principal,
  float term_yrs,
  float rate_of_interest
)

Update Answer Mark as Skipped

Quiz

00:43

Put these steps of building a program, in a correct sequence.

i. Check the design

ii. Check the code

iii. Code the program

iv. Design the program

(Choose one)

- I,II, III, IV
- II, III, IV, I
- IV, I,III, II
- IV, III, I,II

Update Answer Mark as Skipped

00:51

One has to think about efficiency of the program
i. While designing it
ii. While constructing it

(Choose one)

- Only i
- Only ii
- Both i & ii
- Neither i nor ii

Update Answer Mark as Skipped

Quiz

01:10

Which of these data structures can be used for sorting purpose?

(Choose one)

- Graph
- Linked list
- Tree
- Circular queue

Update Answer Mark as Skipped

The OS maintains a _____ data structure to keep the processes that are to be executed next in line.

(Choose one)

- Linked list
- Stack
- Graph
- Queue

Quiz

01:25

Reducing the lines of code in a high-level language program may not improve the speed of the resulting machine code

(Choose one)

- TRUE
- FALSE

Update Answer Mark as Skipped

Quiz

01:25

Reducing the lines of code in a high-level language program may not improve the speed of the resulting machine code

(Choose one)

- TRUE
- FALSE

Update Answer Mark as Skipped

It is better to use more number of global variables as they can be easily accessed from different routines.

(Choose one)

- (•) TRUE
- ( ) FALSE

Which is the best way to make the loop exit in the middle?

(Choose one)

- use goto statement
- use break statement
- use return statement
- use recursion

Update Answer Mark as Skipped

Quiz

04:31

How can this following search algorithm improved further?

```
for (i=0; i<count; i++) {
 if (a[i] == item) {
 found=true;
 }
}
```

(Choose one)

- By reducing the value of count variable
- By changing the data type of array a
- By inserting a 'break' statement after 'found=true' within 'if'
- By inserting a 'break' statement after 'found=true' after 'if'

Update Answer Mark as Skipped

How can this loop be further optimized?

```
sum = 0;
for (i=1; i<=N; i++)
 sum = sum + i;
```

(Choose one)

- ```
  sum = 1;
  for (i=2; i<=N; i++)
  sum = sum + i;
  ```

- ```
  sum = 0;
  for (i=1; i<N; i++)
  sum = sum + i;
  sum = sum + N;
  ```

- ```
  sum = 0;
  for (i=0; i<=N; i++)
  sum = sum + i;
  ```

- ```
  sum = N * (N+1)/2;
  ```

Update Answer Mark as Skipped

What is the equivalent 'jammed loop' version for the following code?

```
for (i=0; i<10; i++)
sum1 = sum1 + i;
for (i=0; i<20; i++)
sum2 = sum2 + i;
```

(Choose one)

- ○
```
for (i=0; i<10; i++) {
sum1 = sum1 + i;
sum2 = sum2 + i;
}
```

- ○
```
for (i=0; i<20; i++) {
sum1 = sum1 + i;
sum2 = sum2 + i;
}
```

- ◉
```
for (i=0; i<10; i++) {
sum1 = sum1 + i;
sum2 = sum2 + i;
}
```

Update Answer Mark as Skipped

What type of loop would you use in these cases?

i. No. of times to loop is unknown initially
ii. No. of times to loop is known initially
iii. loop body needs to be executed at least once

(Choose one)

- i - while, ii - for, iii - for
- i - while, ii - while, iii - for
- i - while, ii - for, iii - do..while
- "for" loop for all

Update Answer Mark as Skipped

What will be optimized version of this loop?

```
sum = 0;
for (i=1; i<=N; i++)
 sum = sum + i * j / k + 10;
```

(Choose one)

- (•)
```
sum = 0;
for (i=1; i<=N; i++)
sum = sum + i * (j / k) + 10;
```

- ( )
```
sum = 0;
m = j / k;
for (i=1; i<=N; i++)
sum = sum + i * m + 10;
```

Update Answer Mark as Skipped

What's wrong with this loop?

```
i = 0;
while (i < 10) {

i--;
}
```

(Choose one)

- Variable i should be used only for 'for' loops
- It's an infinite loop
- It should be i = i - 1 rather than i--.
- Nothing wrong

Update Answer Mark as Skipped

Which of the following statements would fit in the blank space below in this searching loop?

```
for (i = 0; i < N; i++){
 if (arr[i] == item){
 found = true;
 _____
 }
}
```

(Choose one)

- continue
- return
- exit
- break

Update Answer Mark as Skipped

Which program might run faster?

(Choose one)

- for (i=0; i<5; i++)
  strarr[i] = "NULL";

- for (i=0; i<4; i++)
  strarr[i] = "NULL";
  strarr[4] = "NULL";

- strarr[0] = "NULL";
  for (i=1; i<5; i++)
  strarr[i] = "NULL";

- strarr[0] = "NULL";
  strarr[1] = "NULL"
  strarr[2] = "NULL"

Update Answer Mark as Skipped

What is the output of following program segment?

```
int option = 2;
switch (option) {
 case 1: printf("One");
 case 2: printf("Two");
 case 3: printf("Three");
 }
```

(Choose one)

- One
- Two
- Two
  Three

Update Answer Mark as Skipped

What's wrong with following program segment?

```
const int Pi = 3.14;
float area = 0, rad = 5;
Pi = 6.28;
area = Pi * rad * rad;
```

(Choose one)

- 'area' should be declared as 'int'
- Value of 'Pi' cannot be changed
- 'PI' should be assigned to 3.14 again
- Area calculation method is wrong

Update Answer Mark as Skipped

What will be printed if the value of x=20?

```
if (x>10 AND x<20)
 print HIGH
else
 print LOW
```

(Choose one)

- HIGH
- LOW
- HIGH
  LOW
- Nothing gets printed

Update Answer Mark as Skipped

How many times the loop will get executed?

```
for (j=1; j>10; j++)
 sum = sum + i;
```

(Choose one)

- 0
- 1
- 9
- 10

Quiz

02:12

Which among the following is an example of a program statement?

i. a=0;

ii. a + - b;

iii. -b + a = a + b;

(Choose one)

- i only
- ii only
- ii & iii only
- All are correct

Update Answer Mark as Skipped

Quiz

02:04

Checking for ranges of values (e.g. range of marks deciding the grade) is possible using 'case switch' state ments.

(Choose one)

- TRUE
- FALSE

Quiz

01:56

Corrective maintenance activity in code construction comes after _____ activity

(Choose one)

- (•) System testing
- ( ) Problem definition
- ( ) Coding and debugging
- ( ) System integration

Update Answer Mark as Skipped

Data types of variables cannot determine

(Choose one)

- Type of data that can be stored
- Amount of memory a variable occupies
- Address where the variable can be stored in memory
- The range of data that can be stored

Ideal data type to indicate customer's gender i.e. either Male or Female is

(Choose one)

- Integer
- Floating poing number
- String array
- Character