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## Review answers

Start date: 3 minutes ago

Complete date: A moment ago

Question 1: Which statement is false about the pre-processor?

- ☐ The pre-processor can insert another file in a source file.
- ☒ Pre-processor instructions start with '#' and end with a ';'.
- ☐ The pre-processor can replace an identifier with other text.
- ☐ The pre-processor adapts your source file before it is processed by the compiler.

Question 2: Which statement is true about the following code?

C++:



```
1  union Name
2  {
3      char firstName[10];
4      char lastName[10];
5  };
6
7  int main()
8  {
9      union Name name;
10     strcpy(name.firstName, "Dennis");
11     strcpy(name.lastName, "Ritchie");
12     printf("%d", sizeof(name));
13 }
```

- ☐ The output of this program is: 8
- ☐ The output of this program is: 11
- ☒ The output of this program is: 10
- ☐ The output of this program is: 20

Question 3: How do you retrieve the length of an array variable defined as: int arr[10]?

- ☐ Using the `array_length(arr)` function.
- ☐ Using the `arr.length` data member.
- ☒ C does not store the length of an array, so it can't be retrieved.
- ☐ Using the `sizeof(arr)` operator.

Question 4: Which statement is true about the following program?

C++:

```
1  #define sqr(x) (x * x)
2
3  int main()
4  {
5      printf("%.2f, ", sqr(10.0));
6      printf("%.2f\n", sqr(10.0-5.0));
7  }
```

- ☒ The output of this program is: 100.00, -45.00
- ☐ The output of this program is: 100.00, 25.00
- ☐ This program does not compile because the define is missing the semi-colon (;) at the end of the line.
- ☐ This program does not compile because the define is missing round brackets around the x.

Question 5: Which statement is true about the `malloc()` function?

- ☐ Memory allocated with `malloc()` must be de-allocated with `delete`.
- ☒ Memory allocated with `malloc()` must be de-allocated with `free()`.
- ☐ Memory allocated with `malloc()` is de-allocated automatically.
- ☐ Memory allocated with `malloc()` must be de-allocated with `release()`.

Question 6: Which of the statements below is the best way to print the variable `x` which is defined as follows?

C++:

```
1  double x=3.14;
```

- ☐ `printf("%d", x);`
- ☒ `printf("%f", x);`
- ☐ `printf(dbl2str(x));`
- ☐ `printf(x);`

Question 7: Which statement is true about the following code?

C++:



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```
4     short s;  
5 };  
6  
7 int main()  
8 {  
9     struct MyStruct s={"Hello World", 14};  
10    printf("%d\n", sizeof(s));  
11 }
```

- ☐ The output of the program is: 7
- ☐ The output of the program is: 8
- ☐ The output of the program is: 14
- ☒ The output of the program depends on the memory alignment requirements of the platform we are using.

Question 8: Which of the following options creates a copy of the string declared below?

- ☐ `char* s2; strcpy(s2, s1);`
- ☐ `char* s2=s1;`
- ☒ `char s2[80]; strcpy(s2, s1);`
- ☐ `char s2[]=s1;`

Question 9: Which of the following typedef statements below defines a pointer to an array of 10 integers?

- ☐ `typedef int (*ArrayPointer[]);`
- ☐ `typedef int*[] ArrayPointer;`
- ☐ `typedef int *ArrayPointer[];`
- ☒ `typedef int (*ArrayPointer)[];`

Question 10: How do you assign the address of an *int* variable to an *int\** pointer variable?

- ☐ `int i; int* ip=address_of(i);`
- ☐ `int i; int* ip=addressof(i);`
- ☐ `int i; int* ip=*i;`

✓ int i; int\* ip=&i;

Score: 10 (100.00%)

Pass/Fail: Passed (in previous attempts)

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