cs120s20-a.sg

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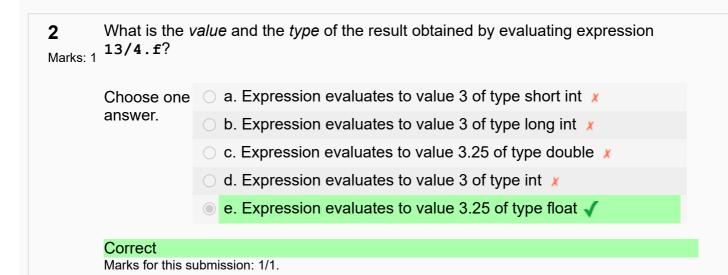
Test-run Online Quiz

Review of attempt 1

Finish review

Started on Completed on Tuesday, 21 April 2020, 02:03 PM
Time taken 45 mins 49 secs
Grade 14 out of a maximum of 15 (93%)

1 Marks: 1	What is the <i>value</i> and the <i>type</i> of the result obtained by evaluating expression 13/4?			
	Choose one answer.	○ a. Expression evaluates to value 3.25 of type float x		
		○ b. Expression evaluates to value 3 of type long int x		
		○ c. Expression evaluates to value 3 of type short int x		
				
		e. Expression evaluates to value 3.25 of type double ✗		
	Correct			
	Marks for this su	ubmission: 1/1.		



What is the *value* and the *type* of the result obtained by evaluating expression

13.0/4.0?

Choose one answer. □ a. Expression evaluates to value 3.25 of type float
□ b. Expression evaluates to value 3.25 of type double ✓

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		○ c. Expression evaluates to value 3.25 of type long double x		
	Incorrect			
	Marks for this submission: 0/1.			
4 Marks: 1	. 2	able and ${f p}$ points to ${f i}$, which of the following expressions are aliases for		
	Choose at	□ *i <i>x</i>		
	least one answer.	□ &*p ×		
		□ *&p ×		
		□ &p ×		
		□ &i ×		
		▼ *p ▼		
		□ &*i x		
		*&i ✓		
	Carra at			
	Correct Marks for this s	submission: 1/1.		
5 Marks: 1	If i is an int variable and p and q are pointers to int, which of the following assignments are legal?			
	Choose at	□ *p = &i x		
	least one answer.	_ &p = q; x		
	answor.			
		□ *p = q; ×		
		□ p = *q; x		
		□ p = &q x		
		□ p = i; x		
		*p = *q; √		
	Correct			
	COLLECT			

Given the definitions 6

Marks: 1 int x; int *p; int *q;

Marks for this submission: 1/1.

which of the following statements are valid? If a statement is invalid, make sure to explain why (to yourself).

Choose at least one answer.

```
p = q; x

p = q; √

*p = *q; √

q = &x; √

*p = 56; √

p = x; x
```

Correct

Marks for this submission: 1/1.

7 Which of the following statements best describe what the following code does? int $a[] = \{1,2,3,4,5\};$ Marks: 1 unsigned int i; int sum=0; for(i=0; i<sizeof(a)/sizeof(a[0]); ++i) sum+=a[i]; Choose one a. It accesses every element of the array. answer. b. There is an access out of bounds error. c. It prints out all the elements of the array. d. The loop adds up all the elements of the array into sum. e. it's behaviour is undefined. x Correct Marks for this submission: 1/1.

```
Which of the following statements best describe what the following code does?
8
        int a[] = \{1,2,3,4,5\};
Marks: 1
        unsigned int i;
        int sum=0;
        for(i=0; i<sizeof(a)/sizeof(0[a]); ++i)
        sum+=i[a];
        }
        Choose one 
a. The loop adds up all the elements of the array into sum.
        answer.
                         though it looks weird. 

                      b. There's a compile error. x
                      c. There is an access out of bounds error.
                      d. it's behaviour is undefined. x
                         e. t prints out all the elements of the array. x
```

Correct

Marks for this submission: 1/1.

9 Which of the following statements best describe what the following code does? int $a[] = \{1,2,3,4,5\};$ Marks: 1 unsigned int i; int sum=0; for(i=0; i<=sizeof(a)/sizeof(a[0]); ++i) sum+=a[i]; Choose one a. The loop adds up all the elements of the array into sum. x answer. b. It prints out all the elements of the array. c. There is an access out of bounds error. d. It accesses every element of the array. e. it's behaviour is undefined. x Correct

Marks for this submission: 1/1.

Walk through the following code fragment and write the **exact** output printed to 10 standard output. Marks: 1

```
int count;
for (count=12; count>=0; count-=2) {
  if (count%5==0) break;
  printf("%d ", count);
}
```

Answer:



Correct

Marks for this submission: 1/1.

Walk through the following code fragment and write the **exact** output printed to 11 standard output. Marks: 1

```
int count;
for (count=12; count>=0; count-=2) {
  if (count%5==0) {
    count++;
    continue;
```

```
}
printf("%d ", count);
}
```

Answer:



Correct

Marks for this submission: 1/1.

Walk through the following code fragment and write the **exact** output printed to standard output.

Marks: 1

```
int x=4, y=5, z=y+6;
do {
  printf("%d ", z);
  z+=7;
} while(((z-x)%4));
```

Answer:



Correct

Marks for this submission: 1/1.

Walk through the following code fragment and write the **exact** output printed to standard output.

```
int i, j;
for (i=0, j=2; i<=5; ++i,j=2*j+3);
printf("%d", j);</pre>
```

Answer:



Correct

Marks for this submission: 1/1.

14 Given the following code fragment:

Marks: 1

#include <stdio.h>
#include <string.h>

```
char str[] = "DigiPen", *p;

for (p = str+strlen(str)-1; p >= str; --p) {
    ++*p;
}

printf("%s", str);
```

Write the sequence of characters printed to standard output by the printf statement.

Answer:



Correct

Marks for this submission: 1/1.

15 Given the following definition:

Marks: 1

consider the expression:

Write the *value* obtained after the evaluation of this expression. If the expression cannot be compiled, write CTE (for compile-time error). If the expression generates undefined behavior (see pages 65 and 163 of text), write UDB (for undefined behavior). Otherwise, write the appropriate value.

Answer:



Correct

Marks for this submission: 1/1.

Finish review

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