



02635 guiz 1 Total Questions: 10

Most Correct Answers: #5

Least Correct Answers: #1

- 1. Which format specifiers can be used to print the value of a variable of type double using printf()?
- 8/78
- (A) %d
- 14/78
- B %e
- 23/78
- C %f
- 9/78
- D %g
- 66/78
- E %lf
- 2. The format specifiers %e, %f, and %g can be used with scanf to read a floating-point number of type double.
- 39/78
- A True
- 34/78
- B False
- 3. Consider the following variable declaration:

double data[100];

What is the length of the array data and what is the index of the last element?

- 1/78
- A The array has length 99 and the last element is data[99]
- 0/78
- B The array has length 99 and the last element is data[100]
- 71/78
- The array has length 100 and the last element is data[99]
- 1/78
- $igl( exttt{D} igr)$  The array has length 100 and the last element is data[100]
- 4. Which of the following prototypes are valid for the main function?
- 1/78
- (A) int \* main(void);
- 70/78
- B int main(void);
- 0/78
- C float main(void);
- 2/78
- D double main(void);

5.	. How many bytes is a double?		
1/78	A	2 bytes	
0/78	B	4 bytes	
0/78	$\bigcirc$	6 bytes	
72/78	8	8 bytes	
		is the output produced by the following loop?	
int i for		<5; i++) printf("%d\n",i++);	
30/78	8 (A	01234	
17/78	8 (B	12345	
3/78	$\bigcirc$	13	
3/78		135	
20/78	8 <b>E</b>	0 2 4	
7.	Catas	trophic cancellation may occur when	
62/78	8 A	when nearly equal quantities are subtracted	
3/78	B	when nearly equal quantities are multiplied	
0/78	$\bigcirc$	when nearly equal quantities are added	
6/78		when a small number is subtracted from a large number	
pre	allest	I that the machine epsilon for a given floating-point number system is the a-1 such a is is different from 1. What is the machine epsilon for double floating-point numbers?	
7/78	A	2^(-23) or approximately 1.19e-07	
46/78	8 <b>B</b>	2^(-52) or approximately 2.22e-16	
17/78	8 (	2^(-63) or approximately 1.08e-19	

## 9. Consider the following code:

## What is the value of v?

44/78



1.0

1.5

22/78





2.0

0/78

4/78



## 10. Consider the following code:

```
double data[5] = {0.0, 0.0, 0.0, 0.0, 0.0};
double *ptail = data + 4;
ptail[-4] = 1.0;
*(ptail-2) = -1.0;
```

What are the values of the five elements of the array after these statements?

6/78



{1.0, 4.0, -1.0, 4.0, 4.0}

2/78



{0.0, 0.0, 0.0, 0.0, 0.0}

52/78



 $\{1.0, 0.0, -1.0, 0.0, 0.0\}$ 

7/78



 $\{0.0, 1.0, 0.0, -1.0, 0.0\}$ 

3/78



 $\{0.0, 0.0, 1.0, 0.0, -1.0\}$