Suppose you declare int count = 5; which of the following is true?	
A. &count is the address of count	
B. &count is 5	
C. *count is the address of count	
C D. *count is 5	
2. Suppose you declare int count = 5 and int *pCount = &count which of the following is true?	
A. *count is the address of count	
B. &count is 5	
C. *pCount is 5	
D. pCount contains the address of count	
3. If you declare a variable double d = 5.5 and compiler stores it in the memory starting with address 04BFA810, then &d is	
C A. 5	
C B. 5.5	
C C. 0	
C D. unknown	
© E. 04BFA810	
4. Why the following pointer variable declaration is wrong?	
int area = 1; double *pArea = &area	
A. double *pArea = &area should be double *pArea = area;	

	B. the type of variable does not match the type of the pointer.
	C. double *pArea = &area should be float *pArea = area;
	D. double *pArea = &area should be int *pArea = area;
5.	Which of the following statements are true?
	A. A local variable is assigned an arbitrary value if you don?t initialize it.
	B. A local pointer is assigned an arbitrary value if you don?t initialize it.
	C. An array element is assigned an arbitrary value if you don?t initialize it.
□ or i	D. Dereferencing a pointer that is not initialized could cause fatal runtime error t could accidentally modify important data.
6.	Suppose int list[6] = {11, 12, 13, 14, 15, 16}; Is *list the same as list[0]? A. yes
0	B. no
	Suppose you declare an array double list[] = $\{1, 3.4, 5.5, 3.5\}$ and compiler stores the memory starting with address 04BFA810. Assume a double value takes eight es on a computer. &list[1] is
0	A. 04BFA810
0	B. 04BFA818
0	C. 1
0	D. 3.4
8.	Suppose you declare an array double list[] = {1, 3.4, 5.5, 3.5}. &list[1] is same as
0	A. list

```
O B. list + 1
C. list + 2
O. list[0]
E. list[1]
9. Suppose you declare an array double list[] = \{1, 3.4, 5.5, 3.5\}. *(list + 1) is same as
C A. *list
B. *list + 1
C. *list + 2
D. list[0]
E. list[1]
10. What is the output of the following code?
 #include <iostream>
 using namespace std;
 int main()
 int list[] = {10, 20, 30, 40};
 cout << *(list + 1) << " " << *list + 1 << endl;
  return 0;
A. 10 10
B. 20 20
° C. 30 30
O. 20 11
```

11. What is the output of the following code?

```
#include <iostream>
 using namespace std;
 int main()
  int list[] = {1, 1, 1, 1};
  *(list) = *(list) + 1;
  *(list + 1) = *(list + 1) + 2;
  *(list + 2) = *(list + 2) + 3;
  *(list + 3) = *(list + 3) + 4;
  cout << list[0] << " " << list[3] << endl;
  return 0;
O A.12
O B. 2 2
C. 34
O.35
C E. 25
12. Suppose you defined
int list1[4], list2[4];
int *p1, *p2;
Which of the following statements are correct?
☐ A. p1 = list1;
\Box B. p1 = p2;
☐ C. list1 = p1;
□ D. list1 = list2;
13. Analyze the following code.
 #include <iostream>
 using namespace std;
```

```
int main()
{
  char *p;
  cout << "Enter a string: ";
  cin >> p;

  cout << p << endl;

  return 0;
}</pre>
```

- A. If you run the program and enter abc, nothing will be displayed. The program runs without errors.
- B. If you run the program and enter abc, abc will be displayed.
- C. If you run the program and enter abc, unpredictable characters will be displayed.
- D. If you run the program and enter abc, a runtime error will occur, because p is used without being initialized.
- 14. Analyze the following code.

#include <iostream>

```
using namespace std;
int main()
{
  char t[10];
  char * p = t;
  cout << "Enter a string: ";
  cin >> p;

cout << p << endl;
  return 0;
}</pre>
```

- A. If you run the program and enter abc, nothing will be displayed. The program runs without errors.
- B. If you run the program and enter abc, abc will be displayed.
- C. If you run the program and enter abc, unpredictable characters will be

displayed.

#include <iostream>
using namespace std;

D. If you run the program and enter abc, a runtime error will occur, because p is being used without initialized.

15. What is the output of the following code?

```
#include <iostream>
 using namespace std;
 void swap(int *pValue1, int *pValue2)
 cout << "swap 1 invoked" << endl;</pre>
 void swap(int &pValue1, int &pValue2)
 cout << "swap 2 invoked" << endl;</pre>
 }
 int main()
  int num1 = 1;
  int num2 = 2;
  swap(&num1, &num2);
 return 0;
 }
A. swap 1 invoked
   B. swap 2 invoked
C. The program has a runtime error because swap is declared multiple times.
   D. The program has a compile error because swap is declared multiple times.
16. What is the output of the following code?
```

```
void swap(int *pValue1, int *pValue2)
  cout << "swap 1 invoked" << endl;</pre>
 void swap(int &pValue1, int &pValue2)
  cout << "swap 2 invoked" << endl;</pre>
 int main()
  int num1 = 1;
  int num2 = 2;
  swap(num1, num2);
  return 0;
 }
A. swap 1 invoked
    B. swap 2 invoked
C. The program has a runtime error because swap is declared multiple times.
    D. The program has a compile error because swap is declared multiple times.
17. What is the output of the following code?
 #include <iostream>
 using namespace std;
 void swap(int pValue1, int pValue2)
  cout << "swap 1 invoked" << endl;</pre>
 void swap(int &pValue1, int &pValue2)
  cout << "swap 2 invoked" << endl;</pre>
```

```
int main()
  int num1 = 1;
  int num2 = 2;
  swap(num1, num2);
  return 0;
A. swap 1 invoked
B. swap 2 invoked
C. The program has a runtime error because swap is declared multiple times.
   D. The program has a compile error because swap(num1, num2) could match
either swap(int pValue1, int pValue2) or swap(int &pValue1, int &pValue2).
18. Which of the following declaration is correct?
☐ A. int *pValue = new double;
B. int *pValue = new int;
C. double *pValue = new double;
D. double *pValue = new int;
19. Suppose list is declared as follows:
int *list = new int[10];
How should you destroy list?
A. delete list;
   B. delete *list;
C. delete [] list;
D. delete [] *list;
```

20. Does the following code cause a memory leak?

int *pValue = new int;
*pValue = 45;
pValue = new int;
delete pValue;

A. yes

O B. no

答案:

- 1. A
- 2. CD
- 3. E
- 4. BD
- 5. ABD
- 6. A
- 7. B
- 8. B
- 9. E
- 10. D
- 11. E
- 12. AB
- 13. D
- 14. B
- 15. A
- 16. B
- 17. D
- 18. BC
- 19. C
- 20. A