Tintash Screening Test 2022

Time Allowed: 40 minutes

bcsf18	m028@	pucit.edu.	pk Switch	account

Draft saved

* Required

Email *

bcsf18m028@pucit.edu.pk

Name *

Muhammad Anas

University *

PUCIT

City *

Lahore

Contact# *

+923071820017

Question 1: class A { public: virtual void print() { cout << "My name is A"; } **}**; class B : public A { public: virtual void print() { cout << "My name is B"; } }; int main () { $A^* a = new B();$ a->print();

What will be the output of above code?

Answer:

- My name is A
- My name is B
- My name is B My name is A
- Error/Invalid Code

Clear selection

Question 2: class A { private: static int x; public: int increment(int y) { x += y;return x; } **}**; int A::x = 0; int main () { A *a1 = new A();A *a2 = new A();int z1 = a1->increment(3); int z2 = a2->increment(5); printf("%d","%d", z1, z2); } What will be the output of above code?

Answer:

3,5

0,0

3,8

None of the above

Clear selection

```
Question 3:
class A {
    private int x1;
   protected int x2;
   void fun1()
       x1 = 3;
       x2 = 5;
   }
}
class B: public A {
   public int x3;
   void fun2()
       x1 = 5;
       x2 = 7;
}
class C {
   A *a;
   void fun3()
       a = new A();
       a->x1=7;
       a->x2=9;
   }
Which of the above functions can access x1:
```

Answer:

fun1, fun2, fun3

fun1 and fun2

only fun1

None

Clear selection

Question 4:

Referring to the code in question 3 Which of the above functions can access x2:

Answer:

fun1, fun2, fun3

fun1 and fun2

only fun1

None

Clear selection

Question 5:

```
class A {
  public:
    A() {
       cout << "This is constructor of A";
  }
    ~A() {
       cout << "This is destructor of A";
  }
};
int main()
{
    A* a = new A();
    a = NULL;
    delete a;
}</pre>
```

What will be the output of above code?

Answer:				
This is destructor of A				
This is constructor of A This is destructor of A				
O No Output				
None of the above				
Question 6: Which of the following can be defined using function overloading without any errors: int add(int a, int b); int add(float a, float b); float add(float a, float b);				
Answer:				
O 1 & 3				
0 1 & 2				
1, 2, and 3				
a and b				

Question 7: class Base1 { public: Base1() { cout << " Base1"; } **}**; class Base2 { public: Base2() { cout << "Base2"; } **}**; class Derived: public Base1, public Base2 { public: Derived() { cout << "Derived"; **}**; int main() Derived d; return 0;

What is the output of the following program?

Answer:

- Base2 Base1 Derived
- Base1 Base2 Derived
- O Derived Base1 Base2
- O Derived Base2 Base1

Question 8:

```
class Base1 {
public:
  ~Base1() {
   cout << " Base1";
  }
};
class Base2 {
public:
  ~Base2() {
    cout << " Base2";
};
class Derived: public Base1, public Base2 {
 public:
  ~Derived() {
   cout << " Derived";
};
int main()
 Derived d;
 return 0;
```

Answer:

- Base2 Base1 Derived
- Base1 Base2 Derived
- Derived Base1 Base2
- Derived Base2 Base1

Question 9:

In a full binary tree if there are L leaves, then the total number of nodes N are? (A full binary tree is a binary tree in which every node other than the leaf nodes has two child nodes.)

Answer: N = 2*L - 1 N = L + 1 N = L - 1 N = 2*L

Question 10:

In a Binary Search Tree of height h and n number of nodes, what is the worst time complexity for searching a node.

Answer:

O(h)

O(n)

O(n+h)

O(logn)

Clear selection

Question 11:

Assuming that you have a pointer named 'head' that points to the first node of a singly linked list with node struct named 'Node'. Consider the initial state of list be "head->1->2->3->4->5->NULL" what will be the state of the linked list after executing the following code

```
Node* ptr = head;
while (ptr->data != 3) {
    ptr = ptr->next;
}
ptr->next = NULL;
```

Answer:	
head->1->2->3->NULL->5	
head->1->2->3->NULL	
head->1->2->NULL	
○ Error	
	Clear selection
Question 12: int *x = (int *) malloc(4); *x = 255; char *c = (char *) x; cout << c[1]; What will be the output?	
Answer:	
O 255	
O 0	
Cannot be determined	
O Invalid code	

Question 13:

Consider that you have implemented classes for Stack and Queue for integers. What will the following function return:

```
int test() {
   Stack s;
   Queue q;
   s.push(1);
   s.push(3);
   s.push(2);
   q.enque(s.pop());
   q.enque(s.pop());
   s.push(q.deque());
   return s.pop();
}
```

Answer:

 \bigcap

None

Clear selection

Question 14:

```
int Fib(n) {
    if (n == 0)
        return 0;
    elif (n==1)
        return 1;
    else
        return Fib(n-1) + Fib(n-2);
}
int main()
{
    Fib(5);
}
```

How many times is Fib(3) called in the above recursive program.

Answer:	
 1 2 3 4 	Clear selection
Question 15: for (int x= 0; x < 10; x++) if (x == 9) x cout << x	
What will be the output of above program?	
What will be the output of above program? Answer:	
Answer:	
Answer: 0 0123456789	
Answer:	
Answer:	Clear selection

Question 16:

```
int main() {
  int i=0,x=0;

for(i=1;i<10;i*=2) {
    x++;
    cout<<x;
  }
  cout<<x;

return 0;
}</pre>
```

What should be the output?

Answer:

- 1234567899
- 123455
- 12345678910
- 12344

Clear selection

Question 17:

```
void fun(int x) {
  if (x > 0) {
    x = x-1;
    fun(x);
    cout << x;
  }
}
int main() {
  fun(4);
}</pre>
```

What will be the output of above code?

Answer: 3210 0123 43210 01234 Clear selection Question 18: What will be the output of: (1102 % 1000) / 50 Answer: 2 2.04 0.04 None of the above Clear selection Question 19: fun(int a) { a+= 5; } int main() { int a = 2; fun(a); cout << a; }

What will be the output of the above code?

Answer:	
O 7	
2	
O 5	
None of the above	
	Clear selection
Question 20: What will be the output of the following code: int x = 10; int y = 5; cout << (y/x)*2;	
Answer:	
O 1	
O 2	
Syntax Error	
None of the above	
	Clear selection
Question 21: What would be the angle between the hour and minute arm on an analog clock at	3:15 PM.

Answer:

O degrees

15 degrees

7.5 degrees

10 degrees

Clear selection

Submit Clear form

Never submit passwords through Google Forms.

This form was created inside of Tintash. Report Abuse

Google Forms