Tintash Screening Test 2022 Time Allowed: 40 minutes

bcsf18m027@pucit.edu.pk Switch account



* Required

Email *

bcsf18m027@pucit.edu.pk

Name *

Syed Nouman

University *

PUCIT

City *

Lahore

Contact# *

03424556029



```
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?
```

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	
	Clear selection
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:	
0 1 & 3	
0 1 & 2	
1, 2, and 3	
a and b	
	Clear selection

```
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 Derived Base1 Base2

Clear selection

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;
```

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

Clear selection

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.)

!

N	=	2*L	. –	1

- \bigcirc N = L + 1
- \bigcirc N = L 1
- N = 2*L

Clear selection

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)

(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	
0	
cannot be determined	
O Invalid code	
	Clear selection

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());
 q.enque(s.pop());
 s.push(q.deque());
 return s.pop();
}

Answer:

- \bigcap
- \bigcirc :
- 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:	
O 1	
2	
○ 3	
O 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?	
Answer:	
0123456789	
012345678	
012345678910	
None of the above	
	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?
```

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	
0 1 2 3	
O 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;
}</pre>
```

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 $\langle (y/x)^*2;$	
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