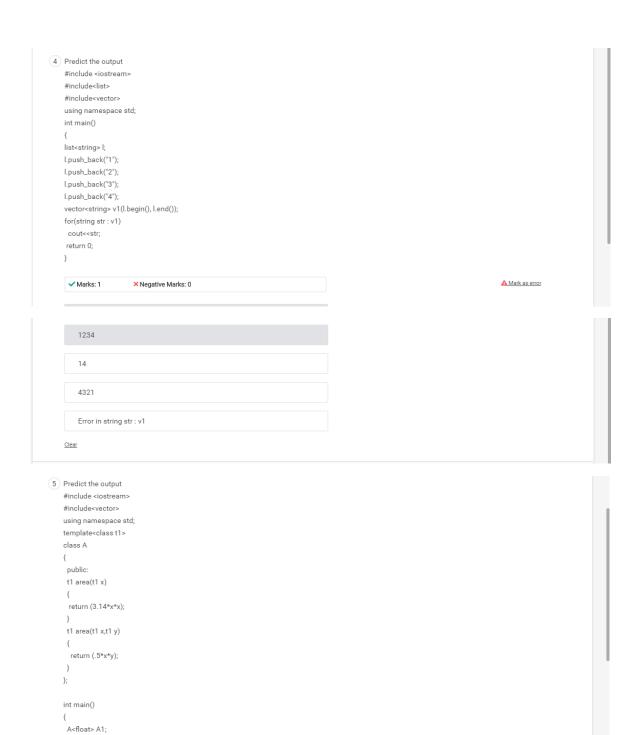
```
1 Predict the output of the following program
   #include <iostream>
   #include <deque>
   using namespace std;
   int main ()
   deque < int >d1;
   int mul (10);
   d1.push_back (1.1);
   d1.push_back (20);
   d1.push_back (300);
   while (!d1.empty ())
   mul *= d1.back ();
   d1.pop_back ();
   cout << mul << '\n';
   return 0;
  d1.push_back (300);
  while (!d1.empty ())
```

```
2 Predict the output
   #include <iostream>
   #include <deque>
    #include <vector>
    using namespace std;
   int main ()
     vector<char> v1(3);
   deque < char >::iterator it;
   deque <char>d1;
   unsigned int i;
   d1.push_back ('k');
   d1.push_back (65);
   it= d1.begin();
    for (unsigned i = 0; i < v1.size(); i++)
   v1.at(i)=*it;
   cout << ' ' << v1.at(i);
   ++it;
   return 0;
```

```
d1.push_back (65);
it= d1.begin();
for (unsigned i = 0; i < v1.size(); i++)
v1.at(i)=*it;
cout << ' ' << v1.at(i);
++it;
}
return 0;
✓ Marks: 1
                    × Negative Marks: 0
                                                                                                                                   ▲ Mark as error
 k A
    k 65
    k 65 0
    k 65 garbage value
Clear
```

3 Predict the output #include <iostream> #include <list> using namespace std; int main () list < int >m; list < int >::iterator t1, t2; for (int i = 1; i < 10; ++i) m.push\_back (i \* 1); t1 = t2 = m.begin (); advance (t2, 6); ++t1; t1 = m.erase (t1); t2 = m.erase (t2); ++t1; -t2; for (t1 = m.begin (); t1 != m.end (); ++t1) cout << ' ' << \*t1; return 0; }

```
t1 = t2 = m.begin ();
advance (t2, 6);
t1 = m.erase (t1);
t2 = m.erase (t2);
++t1;
-t2;
for (t1 = m.begin (); t1 != m.end (); ++t1)
cout << ' ' << *t1;
return 0;
}
                                                                                                                         ▲ Mark as error
                  × Negative Marks: 0
 ✓ Marks: 1
   123456789
    1346789
    1345789
    1345689
```



vector<int>::iterator t;

```
t1 area(t1 x)
     return (3.14*x*x);
     t1 area(t1 x,t1 y)
      return (.5*x*y);
    };
    int main()
     A<float> A1;
    vector<int> v(2);
    vector<int>::iterator t;
    v.at(0)=A1.area(2);
    v.at(1)=A1.area(2,4);
    for \ (t=v.begin();t< v.end();t++)
    }
     return 0;
    }
     A<float> A1;
     vector<int> v(2);
     vector<int>::iterator t;
    v.at(0)=A1.area(2);
     v.at(1)=A1.area(2,4);
    for (t=v.begin();t<v.end();t++)
     cout <<*t;
     return 0;
     }
                                                                                                                                      ▲ Mark as error
     ✓ Marks: 1
                         X Negative Marks: 0
        12.56 4.00
         Error: no match of operator '='
         12 4
         12.56 4
6 What is the output of following code:
    #include <iostream>
     #include <vector>
     using namespace std;
     int main ()
      vector<int> myvector;
       myvector.push_back(78);
       myvector.push_back(16);
       myvector.front() += myvector.back();
       cout << myvector.front() << ' \n';
       return 0;
                        × Negative Marks: 0
                                                                                                                                      ▲ Mark as error
     ✓ Marks: 1
        78
        16
        None of the mentioned
```

```
#include <iostream>
     #include <list>
     using namespace std;
     int main ()
     list<int> mylist;
     list<int> :: iterator it1, it2;
     for (int i = 1; i < 10; ++i)
     mylist.push_back(i * 1);
     it1 = it2 = mylist.begin();
     advance (it2, 6);
      ++it1;
      it1 = mylist.erase (it1);
      it2 = mylist.erase (it2);
     ++it1;
      --it2;
      mylist.erase (it1, it2);
     for (it1 = mylist.begin();
    it1 != mylist.end(); ++it1)
     cout << ' ' << *it1;
      return 0;
      }
     ++it1;
     it1 = mylist.erase (it1);
     it2 = mylist.erase (it2);
   ++it1;
     --it2:
     mylist.erase (it1, it2);
    for (it1 = mylist.begin();
   it1 != mylist.end(); ++it1)
    cout << ' ' << *it1;
     return 0;
    ✓ Marks: 1
                         × Negative Marks: 0
                                                                                                                                            ▲ Mark as error
       136
       8 9
       13689
       None of the mentioned
8 #include <iostream>
     #include <deque>
     using namespace std;
```

```
#include <deque>
using namespace std;
int main ()
{
    unsigned int i;
    deque<int> mydeque;
    deque<int>: iterator it;
    mydeque.push_back (100);
    mydeque.push_back (200);
    mydeque.push_back (300);
    for (it = mydeque.begin(); it != mydeque.end(); ++it)
        mydeque.clear();
    cout << '' << *it;
}
```

✓ Marks: 1	× Negative Marks: 0	
100		
200		
300		
none of the	above mentioned	

▲ Mark as error

```
#include <iestream>
#include <deque>
using namespace std;
int main ()
{
    deque<int> mydeque;
    int sum (0);
    mydeque.push_back (10);
    mydeque.push_back (20);
    mydeque.push_back (30);
    while (!mydeque.empty())
    {
    sum += mydeque.back();
    mydeque.pop_back();
    }
    cout << sum << '\n';
    return 0;
}
```

```
      ✓ Marks: 1
      X Negative Marks: 0

      10
      20

      30
      60
```

```
using namespace std;
template <class type>
class Test
{
   public:
    Test()
   {
     };
     ~Test()
   {
   };
   type Funct1(type Var1)
   {
     return Var1;
   }
   type Funct2(type Var2)
   {
     return Var2;
   }
};
int main()
{
```

```
11 What is the output:
     #include <iostream>
    using namespace std;
    template <class T>
    T max (T& a, T& b)
    return (a>b?a:b);
    int main ()
     int i = 5, j = 6, k;
    long I = 10, m = 5, n;
     k = max(i, j);
    n = max(l, m);
     cout << k << endl;
     cout << n << endl;
    return 0;
    template <class T>
    T max (T& a, T& b)
    return (a>b?a:b);
    int main ()
     int i = 5, j = 6, k;
    long I = 10, m = 5, n;
     k = max(i, j);
    n = max(l, m);
     cout << k << endl;
    cout << n << endl;
    return 0;
     ✓ Marks: 1
                         × Negative Marks: 0
                                                                                                                                           ▲ Mark as error
        6
13 int main()
    std::list<std::string> listOfStr;
    listOfStr.push_back("1");
    listOfStr.push_back("2");
    listOfStr.push_back("3");
    listOfStr.push_back("4");
    // Initialize a vector with std::list
    std::vector < std::string > vecOfStr(listOfStr.begin(), listOfStr.end());\\
    for(std::string str : vecOfStr)
     std::cout<<str;
    return 0;
     ✓ Marks: 1
                         × Negative Marks: 0
                                                                                                                                           ▲ Mark as error
        1234
        1234
```

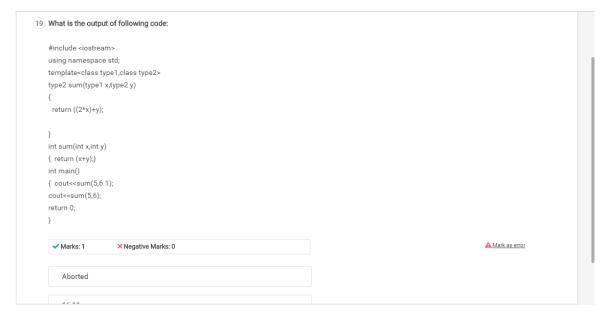
```
15 #include<iostream>
    #include<vector>
    #include<algorithm> // for sort()
    using namespace std;
    int main()
    vector< vector<int> > vect{
             {4, 8, 6},
             {7, 2, 9}};
    int m = vect.size();
    int n = vect[0].size();
    cout << "The Matrix before sorting 1st row is:\n";
     for (int i=0; i<m; i++)
      for (int j=0; j<n ;j++)
      cout << vect[i][j] << " ";
      cout << endl;
    sort(vect[0].rbegin(), vect[0].rend());
    cout << "The Matrix after sorting 1st row is:\n";
     for (int i=0; i<m; i++)
    for (int j=0; j<n ;j++)
      for (int j=0; j<n ;j++)
       cout << vect[i][j] << " ";
      cout << endl;
    sort(vect[0].rbegin(), vect[0].rend());
     cout << "The Matrix after sorting 1st row is:\n";
     for (int i=0; i<m; i++)
    for (int j=0; j<n ;j++)
       cout << vect[i][j] << " ";
      cout << endl;
     return 0;
                                                                                                                                                 ▲ Mark as error
      ✓ Marks: 1
                          X Negative Marks: 0
        Syntax error
         8 6 4
7 2 9
    #include <iostream>
    #include <cstdio>
```

```
using namespace std;
int main()
string s, s1;
s = "HELLO";
s1 = "HELLO";
if(s.compare(s1) == 0)
 cout << s << " is equal to " << s1 << endl;
else
 cout << s << " is not equal to " << s1 << endl;
s.append(" WORLD!");
cout << s << endl;
 printf("\%s\n", s.c\_str());
 if(s.compare(s1) == 0)
 cout << s << " is equal to " << s1 << endl;
  cout << s << " is not equal to " << s1 << endl;
return 0;
}
```

```
cout << s << " is equal to " << s1 << endl;
  cout << s << " is not equal to " << s1 << endl;
 s.append(" WORLD!");
 printf("%s\n", s.c_str());
 if(s.compare(s1) == 0)
  cout << s << " is equal to " << s1 << endl;
  cout << s << " is not equal to " << s1 << endl;
 return 0;
 ✓ Marks: 1
                       × Negative Marks: 0
                                                                                                                                                   ▲ Mark as error
    Hello World! is not equal to hello
Hello WORLD!
     Hello WORLD!
     Hello World! is not equal to hello
    none of the above
#include <iostream>
using namespace std;
void fruits(int count) throw (char,int)
{ if(count==2)
throw count;
else if(count==4)
throw (char)count;
throw (float)count;}
int main()
{ try
 { fruits(4);
fruits(2);}
catch(int)
{ cout<<"Caught integer exception"; }
catch(char)
\{\ \mathsf{cout} \mathord{<<} \mathsf{``Caught\ char\ exception''}; \}
catch(float)
 { cout<<"Caught float exception";}
return 0;
✓ Marke: 1 ✓ Magatina Marke: 0
                                                                                                                                                   ▲ Mark as error
{ Iruits(4);
fruits(2);}
catch(int)
{ cout<<"Caught integer exception";}
catch(char)
\{\ \mathsf{cout} \mathord{<^{"}} \mathsf{Caught}\ \mathsf{char}\ \mathsf{exception}"; \}
catch(float)
{ cout<<"Caught float exception";}
return 0;
 ✓ Marks: 1
                       × Negative Marks: 0
                                                                                                                                                   Caught char exception
    Caught char exception
Caught integer exception
    Caught float exception
Caught integer exception
    Aborted
```

```
#include<iostream>
#include<vector>
using namespace std;
void display(vector<int>&v)
for(int i=0;i<v.size();i++)
cout<<v[i]<<" ";
int main()
vector<int> v1;
 v1.push_back(1);
 v1.push_back(5);
 v1.push_back(2);
 v1.push_back(3);
vector<int> :: iterator p=v1.begin();
v1.insert(p,9);
v1.erase(v1.begin()+2);
display(v1);
```

```
v1.push_back(1);
v1.push_back(5);
v1.push_back(2);
v1.push_back(3);
vector<int> :: iterator p=v1.begin();
p=p+3;
v1.insert(p,9);
v1.erase(v1.begin()+2);
display(v1);
}
                                                                                                                          ▲ Mark as error
✓ Marks: 1
                   X Negative Marks: 0
   1593
   1529
   1539
   1523
```



```
20 What is the output of following code:
   #include<list>
   using namespace std;
   void fanfare(list<int>&lst)
   list<int> :: iterator p;
   for(p=lst.begin();p!=lst.end();p++)
   cout<<*p<<" ";
   int main()
   list<int> lst1;
    lst1.push_front(12);
    lst1.push_back(8);
     lst1.push_front(20);
    lst1.push_front(17);
    lst1.push_back(10);
     lst1.pop_front();
    lst1.sort();
    fanfare(lst1);
   }
```

```
list<int> lst1;
lst1.push_front(12);
lst1.push_back(8);
lst1.push_front(20);
lst1.push_front(17);
lst1.push_back(10);
lst1.pop_front();
lst1.sort();
fanfare(lst1);
✓ Marks: 1
                    × Negative Marks: 0
                                                                                                                                  ▲ Mark as error
   8 10 12 20
    10 12 17 20
    8 10 12 17
    8 10 17 20
```

```
21) What is the output of following code:
    #include <iostream>
    #include<string.h>
   using namespace std;
   template<class var1, class var2=int>
    class details
   { var1 num;
    var2 num1;
    public:
   details(var1 n,var2 n1)
    { num=n;
     num1=n1; }
    void display()
    { cout<<num<<num1;}
   };
   int main()
   { details<int>d1(23.1,25.1);
   details<int,float>d2(12.1,13.4);
   d1.display():
    d2.display();
   return 0;
     num1=n1;}
   void display()
    { cout<<num<<num1;}
   };
   int main()
   { details<int>d1(23.1,25.1);
   details<int,float>d2(12.1,13.4);
   d1.display();
   d2.display();
   return 0;
    ✓ Marks: 1
                       × Negative Marks: 0
                                                                                                                                 ▲ Mark as error
       23 25 12 13.4
       23 25 12 13
       23.1 25.1 12 13
       23.1 25.1 12.1 13.4
    #include <iostream>
```

```
using namespace std;
template<class T, int max>
int arrMin(T arr[], int n)
int m = max;
 for(int i = 0; i < n; i++)
 if(arr[i] < m)
  m = arr[i];
 return m;
int main()
 int arr1[] = {10, 20, 15, 12};
 int n1 = sizeof(arr1)/sizeof(arr1[0]);
 char arr2[] = {1, 2, 3};
 int n2 = sizeof(arr2)/sizeof(arr2[0]);
 cout << arrMin<int, 10000>(arr1, n1) << endl;
 cout << arrMin<char, 256>(arr2, n2);
 return 0;
```

```
m – arrįij;
     return m;
     int main()
     int arr1[] = {10, 20, 15, 12};
     int n1 = sizeof(arr1)/sizeof(arr1[0]);
     char arr2[] = {1, 2, 3};
     int n2 = sizeof(arr2)/sizeof(arr2[0]);
      cout << arrMin<int, 10000>(arr1, n1) << endl;
     cout << arrMin<char, 256>(arr2, n2);
     return 0;
      ✓ Marks: 1
                          × Negative Marks: 0
                                                                                                                                           ▲ Mark as error
         10
1
         15
1
23 What is the output:
    #include<iostream>
   using namespace std;
   template<class T1,class T2>
   void display(T1 a, T2 b)
   cout<<"\na= "<< a <<"\tb = "<<b;
   int main()
   int i=10;float f=25.5;
   display(i,f);
   char ch ='B';
   i=20;
   display(ch,i);
   return 0;
   }
                                                                                                                                          ▲ Mark as error
    ✓ Marks: 1
                        × Negative Marks: 0
       a = 10 b = 25.5
a = B b = 20
24 What is the output:
    #include <iostream>
    using namespace std;
    template <class T>
     T max (T& a, T& b)
    return (a>b?a:b);
    int main ()
    int i = 5, j = 6, k;
    k = max(i, j);
    cout << k << endl;
    return 0;
    ✓ Marks: 1
                         × Negative Marks: 0
                                                                                                                                          ▲ Mark as error
```

5

```
26 What is the output:
   #include<deque>
   #include<iostream>
   using namespace std;
   int num3;
   deque<int> dq;
   cout<<"Enter elements to insert in deque \n";
   for(int i=0;i<4;i++)
   dq.push_back(i);
   dq.push_front(i);
   deque<int> :: iterator itr;
   itr=dq.begin();
   num3=2;
   for(int i =0;i<num3;i++)
   dq.erase(itr+i);
   for(itr=dq.begin();itr!=dq.end();itr++)\\
```

```
#include<iostream>
#include<stdlib.h>
using namespace std;
template<class type1, class type2, class type3=double>
class test {
type1 x;
type2 y;
type3 z;
static int count;
int main()
test<int,float> a;
test<char, double> b;
test<int,char> c;
cout << sizeof(a) << endl;
cout << sizeof(b) << endl;
cout<< sizeof(c)<< endl;
return 0;
```

```
static int count;
   };
   int main()
   test<int,float> a;
   test<char, double> b;
   test<int,char> c;
   cout << sizeof(a) << endl;
   cout << sizeof(b) << endl;
   cout<< sizeof(c)<< endl;
   return 0;
   }
    ✓ Marks: 1
                         × Negative Marks: 0
                                                                                                                                          ▲ Mark as error
        16
24
16
        16
16
16
28 What is the output:
   #include<iostream>
```

```
#include<iostream>
#include<queue>
using namespace std;
int main()
{ queue<int>s,s1;
s.push(50);
s.push(30);
s.push(30);
s.push(20);
s.push(20);
s.push(70);
s1=s;
while(!s1.empty())
{
    s1.pop();
    cout<<s1.front()<<endl;
}
return 0;
}
```

```
#include <iostream>
using namespace std;
template <class type>
class ABC
{
    public:

    ABC()
    {
        cout<<"In constructor"<<endl;
    };
    ~ABC()
    {
        cout<<"In Destructor"<<endl;
    };
    type Funct1(type var1,type var2)
    {
        return var1+var2;
    }
    type Funct2(type var1,type var2)
    {
        return var1-var2;
    }
};
```

```
#include <iostream>
using namespace std;
template <class T>
void temp(T a)
{
cout<< a << endl;
}
void temp(char a)
{
cout << a << endl;
}
int main()
{
temp<char>(a);
temp<float>(5.5);
}
```







```
35 What is the output of following code:
   #include <iostream>
    using namespace std;
   template <typename P, int data>
   void str(P a)
    P value[data];
    for(int i = 0; i < data; i++)
     value[i] = a++;
     cout << value[i] << endl;
    int main()
   double b = 2.1345;
   str<double, 2> (b);
    ✓ Marks: 1
                       × Negative Marks: 0
                                                                                                                                     ▲ Mark as error
      3.1345
    void str(P a)
     P value[data];
     for(int i = 0; i < data; i++)
     value[i] = a++;
     cout << value[i] << endl;
   };
   int main()
   double b = 2.1345;
   str<double, 2> (b);
                       × Negative Marks: 0
                                                                                                                                     ▲ Mark as error
    ✓ Marks: 1
       3.1345
       2.1345
3.1345
36 What is the output of following code:
   #include <iostream>
   template <typename S>
   void data(const S&m)
  static int value = 0;
   cout << "m = " << m<< " value = " << value << endl;
   ++value:
   return;
   int main()
   cout << endl;
   data<int>(2);
   data<double>(2.1);
   cout << endl;
   data<int> (2);
```

cout << endl; return 0;

```
cout << "m = " << m<< " value = " << value << endl;
++value;
return;
}
int main()
data<int> (2);
cout << endl;
data<int>(2);
data<double>(2.1);
cout << endl;
data<int> (2);
cout << endl;
 return 0;
 ✓ Marks: 1
                       × Negative Marks: 0
                                                                                                                                                       ▲ Mark as error
    m=2 value= 0
m=2 value= 1
m= 2.1 value= 0
m=2 value= 2
```

```
37) What is the output of following code:
    #include <iostream>
    using namespace std;
    template <typename P>
    P max (P& x, P& y)
    return (x>y?x:y);
    int main ()
    int i = 2, j = 16, k;
     double l= 1.7889, m = 5.45, n;
     k = max(i, j);
     n = max(l, m);
     cout << k << endl;
     cout << n << endl;
     return 0;
                        × Negative Marks: 0
     ✓ Marks: 1
                                                                                                                                      A Mark as error
        16 5.45
```

```
#include <lostream>

#include <lostream>

using std::eatring;

using std::estring;

template <typename S>
const S& max(const S& a, const S& b)

{

if (b < a)

return a;

return b;
}

int main()

{

cout << max(4.0, 2.9) << endl;

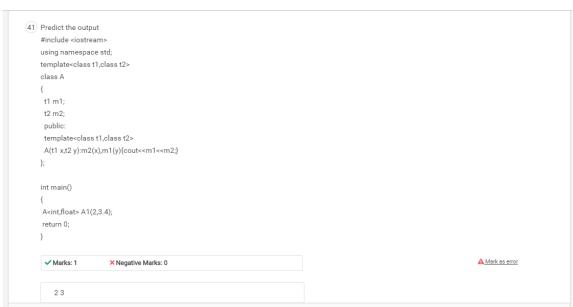
cout << max(4.0, 2.9) << endl;

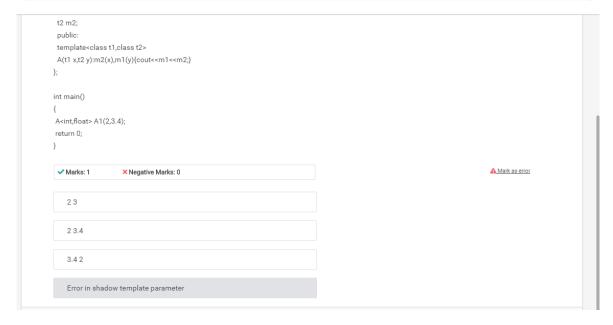
cout << max(a, const S, cond);

cout << max(a, cond);

cout
```

```
using sta..cout,
    using std::endl;
    using std::string;
    template <typename S>
    const S& max(const S& a, const S& b)
    if (b < a)
    return a;
    return b;
    cout << max(4.0, 2.9) << endl;
    cout << max<double>(5.0, 6.1) << endl;
    cout << max<char>('E', 'D') << endl;
    return 0;
                                                                                                                                           ▲ Mark as error
    ✓ Marks: 1
                         × Negative Marks: 0
       4
6.1
39 What is the output of following code:
    #include <iostream>
    #include <vector>
    #include <numeric>
    int main() {
    int i[] = {2,4,6,8,10};
    std::vector<int> vi(&i[2],&i[4]);
    std::vector<int>::iterator viter;
    for(viter=vi.begin(); viter < vi.end(); ++viter)
    std::cout << *viter << std::endl;
    std::cout << accumulate(vi.begin(),vi.end(),2) << std::endl;
                                                                                                                                           ▲ Mark as error
     ✓ Marks: 1
                         × Negative Marks: 0
        8
16
40 What is the output of following code:
    #include <iostream>
     #include <deque>
     using namespace std;
     int main ()
       unsigned int x;
       deque<int> data;
       deque<int> :: iterator i;
       data.push_back ( 101 );
       data.push_back ( 102 );
        data.push_back ( 103 );
       for (i = data.begin(); i!= data.end(); ++i)
         data.clear();
                                                                                                                                            ▲ Mark as error
    ✓ Marks: 1
                         × Negative Marks: 0
        101
        102
```





```
42 Predict the output of the following
   #include <iostream>
   #include <deque>
   using namespace std;
   int main ()
   deque < int >d1;
   int mul (20);
   d1.push_back (2.1);
   d1.push_back (30);
   d1.push_back (40);
   while (!d1.empty ())
   mul *= d1.back ();
   d1.pop_back ();
   cout << mul << '\n';
   return 0;
    ✓ Marks: 1
                       × Negative Marks: 0
                                                                                                                                   ▲ Mark as error
```

```
using namespace std;
int main ()
deque < int >d1;
int mul (20);
d1.push_back (2.1);
d1.push_back (30);
d1.push_back (40);
while (!d1.empty ())
mul *= d1.back ();
d1.pop_back ();
cout << mul << '\n';
return 0;
                                                                                                                                ▲ Mark as error
✓ Marks: 1
                    × Negative Marks: 0
    48000
    4800
```

```
43 Predict the output of the following
   #include <iostream>
   #include <deque>
   #include <vector>
   using namespace std;
   int main ()
     vector<char> v1(3);
   deque < char >::iterator it;
   deque <char>d1;
   unsigned int i;
   d1.push_back ('L');
   d1.push_back (100);
   it= d1.begin();
   for (unsigned i = 0; i < v1.size(); i++)
   v1.at(i)=*it;
   cout << ' ' << v1.at(i);
   ++it;
   return 0;
```

```
vector<char> v1(3);
   deque < char >::iterator it;
   deque <char>d1;
   unsigned int i;
   d1.push_back ('L');
   d1.push_back (100);
   it= d1.begin();
   for (unsigned i = 0; i < v1.size(); i++)
   v1.at(i)=*it;
   cout << ' ' << v1.at(i);
   ++it;
   return 0;
    ✓ Marks: 1
                        × Negative Marks: 0
                                                                                                                                          ▲ Mark as error
    L d
       L 100
44 Predict the output of the following
   #include <iostream>
   #include <list>
    using namespace std;
   int main ()
   list < int >m;
   list < int >::iterator t1, t2;
   for (int i = 1; i < 5; ++i)
    m.push_back (i * 1);
   t1 = t2 = m.begin ();
   advance (t2, 2);
   ++t1;
   t1 = m.erase (t1);
   t2 = m.erase (t2);
   ++t1;
   -t2;
    for (t1 = m.begin (); t1 != m.end (); ++t1)
   cout << ' ' << *t1;
   return 0;
    list < int >m;
    list < int >::iterator t1, t2;
    for (int i = 1; i < 5; ++i)
    m.push_back (i * 1);
    t1 = t2 = m.begin ();
    advance (t2, 2);
    ++t1;
    t1 = m.erase (t1);
    t2 = m.erase (t2);
    ++t1;
    --t2:
    for (t1 = m.begin (); t1 != m.end (); ++t1)
    cout << ' ' << *t1;
    return 0;
                         X Negative Marks: 0
     ✓ Marks: 1
                                                                                                                                           A Mark as error
      14
        12
```

```
#include <lostream>
using namespace std;
template <class T>
T min(T a, T b)
{
return (a-b)? a : b;
}
int main()
{
cout << min(3, 7); cout<< std::endl;
cout << min(3, 7.0); cout<< std::endl;
return 0;
}

**Marks: 1 **Negative Marks: 0

**Mark as error*

**Compiler Error in last cout statement as call to min is ambiguous.

**None of the above**
```

46 Predict the output of the following #include <iostream> using namespace std: template <class k> void test(const k&y) static int c = 0; cout << "y = " << y << " c = " << c<< endl; ++c; return; } int main() test<int> (2); cout << endl; test<int>(2); cout << endl; test<double>(2.3); cout << endl; return 0;

```
cout << "y = " << y << " c = " << c<< endl;
++c;
return;
}
int main()
test<int> (2);
cout << endl:
test<int>(2);
cout << endl;
test<double>(2.3);
cout << endl;
return 0;
                                                                                                                                    ▲ Mark as error
✓ Marks: 1
                    × Negative Marks: 0
   y = 2 c = 0
   y = 2 c = 1
    y = 2.3 c = 0
```

```
47 Predict the output of the following
     #include <iostream>
     #include <map>
    using namespace std;
     int main()
    map<float, int> k;
     k['a'] = 4.1;
     k['b'] = 5.5;
    if (k.empty()) {
     cout << "True";
    else {
     cout << "False";
     return 0;
                                                                                                                                        <u>▲ Mark as error</u>
     ✓ Marks: 1
                         × Negative Marks: 0
       False
48 Predict the output
   #include <iostream>
```

```
#include <iostream>
using namespace std;

template <class type t>
void print (t x, t y)
{
    cout<<x<<y;
}
void add(t x, t y)
{
    cout<<x+y;
}

int main()
{
    print(1,2);
    add(1,2);

return 0;
}
```

```
void print (t x, t y)
{
    cout<<x<ey;
}
void add(t x, t y)
{
    cout<<x+y;
}
int main()
{
    print(1,2);
    add(1,2);

    return 0;
}

✓ Marks: 1 × Negative Marks: 0

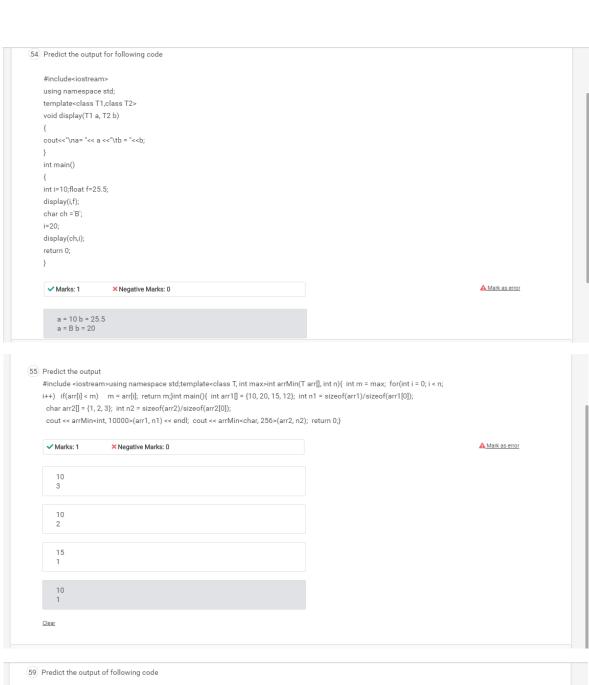
A Mark as error

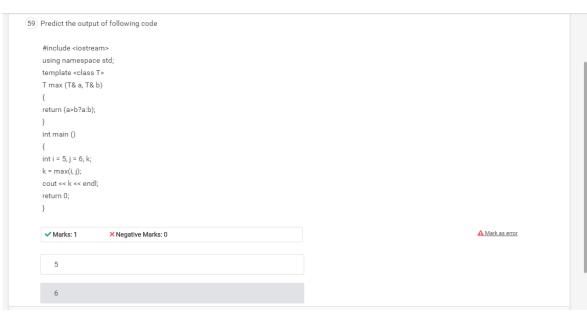
Compile time error
```

```
49 PREDICT THE OUTPUT
   #include <iostream>
   #include <set>
   using namespace std;
   {
     set <int> s;
     s.insert(40);
     s.insert(30);
     s.insert(60);
     s.insert(20);
     s.insert(20);
     s.insert(20);
     s.insert(10);
     set<int> :: iterator it;
     set <int> s;
     s.insert(40);
      s.insert(30);
     s.insert(60);
     s.insert(20);
     s.insert(20);
     s.insert(20);
     s.insert(10);
      set<int> :: iterator it;
     for(it=s.begin(); it!=s.end(); it++)
       cout <<" "<< *it;
    }
                                                                                                                                      ▲ Mark as error
     ✓ Marks: 1
                        X Negative Marks: 0
     10 20 30 40 60
   #include <iostream>
```

```
using namespace std;
template <class t>
class A{
private:
tx;
public:
static int a;
A()
}
};
int A :: a = 0;
int main(){
A<int> o;
A<int> o1;
A<double> o2;
cout << A<int>::a << endl;
cout << A<double>::a << endl;
return 0;
}
```

```
public:
   static int a;
   A()
   a++;
   }
   };
   int A :: a = 0;
   int main(){
   A<int> o;
   A<int> o1;
   A<double> o2;
   cout << A<int>::a << endl;
   cout << A<double>::a << endl;
   return 0;
    ✓ Marks: 1
                                                                                                                                   ▲ Mark as error
                       × Negative Marks: 0
     Compile time error
52 Predict the output:
   using namespace std;
   int main ()
   int x = 8;
   cout.width (5);
   cout << x << endl;
   cout.fill('*');
   cout.width(5);
   cout<<524<<"\n";
    cout<<7;
    return 0;
    ✓ Marks: 1
                        × Negative Marks: 0
                                                                                                                                   ▲ Mark as error
        8
**524
7
53 Predict the output
   #include <iostream>
   using namespace std;
   int main ()
   char ch='q';
   cout.put('x');
   cout.put(ch);
   cout.put(68);
   return 0;
                                                                                                                                   ▲ Mark as error
    ✓ Marks: 1
                        × Negative Marks: 0
       120q68
       120qD
       xqD
```





```
60 1) What will be the output of this program?
   # include<deque>
    #include<iostream>
   using namespace std;
   int main()
           int num3:
           deque<int> dq;
           cout<<"Enter elements to insert in deque \n";
           for(int i=0;i<4;i++)
                  dq.push_back(i);
                  dq.push_front(i);
           deque<int> :: iterator itr;
           itr=dq.begin();
           num3=2;
           for(int i =0;i<num3;i++)
           {
                  dq.erase(itr+i);
          itr=dq.begin();
          num3=2;
```

```
61 1) Predict the output:
   #include<iostream>
   #include<stdlib.h>
   using namespace std;
   template<class type1, class type2, class type3=double>
   { type1 x;
        type2 y;
   type3 z;
   static int count;};
   int main()
   test<int,float> a;
   test<char, double> b;
   test<int.char> c:
   cout << sizeof(a) << endl;
   cout << sizeof(b) << endl;
   cout<< sizeof(c)<< endl;
   return 0;
```

```
test<int,float> a;
   test<char, double> b;
   test<int,char> c;
   cout << sizeof(a) << endl;
   cout << sizeof(b) << endl;
   cout<< sizeof(c)<< endl;
   return 0;
   }
     ✓ Marks: 1
                                                                                                                                       ▲ Mark as error
                        × Negative Marks: 0
       24
24
16
        16
24
24
        16
24
16
62 1) Predict the output
   #include<iostream>
   #include<queue>
   using namespace std;
   int main()
   { queue<int>s,s1;
   s.push(50);
   s.push(30);
   s.push(30);
   s.push(20);
   s.push(70);
   s1=s;
   while(!s1.empty())
    s1.pop();
    cout<<s1.front()<<endl;
   return 0;
   using namespace sto,
   { queue<int>s,s1;
   s.push(50);
   s.push(30);
   s.push(30);
   s.push(20);
   s.push(70);
   s1=s;
   while(!s1.empty())
    s1.pop();
    cout<<s1.front()<<endl;
   return 0;
    ✓ Marks: 1
                        × Negative Marks: 0
                                                                                                                                       ▲ Mark as error
       30
30
20
70
0
```

```
63 Predict the output:
   #include <iostream>
    using namespace std;
    template <class type>
   class ABC
   public:
   ABC()
   { cout<<"In constructor"<<endl; };
   ~ABC()
   { cout<<"In Destructor"<<endl; };
     type Funct1(type var1,type var2)
    { return var1+var2; }
   type Funct2(type var1,type var2)
    {return var1-var2; }
   int main()
   ABC<int> var1;
   ABC<double> var2:
   cout << var1.Funct1(200,300)<<endl;
   cout << var2.Funct2(300.50,201)<<endl;
   return 0;
```

```
In Destructor
500
99.5

In constructor
In
Destructor
In constructor
In
Destructor
In constructor
In constructor
In constructor
In Destructor
In Destructor
In Destructor
In Destructor
99.5
In Destructor
In Destructor
In constructor
In Destructor
In Destructor
In Destructor
In Destructor
In constructor
In constructor
In constructor
In constructor
In constructor
In constructor
In Destructor
In Destructor
In Destructor
```

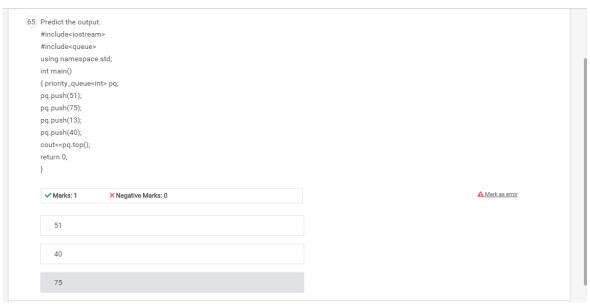
 $\fbox{64}$  Which of the following is not true about class template and function template ?

- 1. Class templates and function templates are instantiated in the same way
- $2. \quad \hbox{Class templates differ from function templates in the way they are initiated} \\$
- 3. Class template is initiated by defining an object using the template argument
- 4. Class templates are generally used for storage classes

✓ Marks: 1	X Negative Marks: 0	
1,2,3		
2,3		
3,4		
2,3,4		

▲ Mark as error

Clear





```
else if(count==4)
           throw (char)count;
           throw (float)count;}
           int main()
           { try
              { fruits(4);
          fruits(2);}
          catch(int)
              { cout<<"Caught integer exception"; }
          catch(char)
          { cout<<"Caught char exception"; }
          catch(float)
             { cout<<"Caught float exception";}
          return 0;}
                                                                                                                                                                                                                                                                                                                                                                                                                   ▲ Mark as error
            ✓ Marks: 1
                                                                      X Negative Marks: 0
                      a) Caught char exception
                        b) Caught char exception
                       Caught integer exception
67 i 1 Output of the following program:
                 3 * #include<iostream>
4
5 * #include<vector>
6
7 using namespace std;
                 10 void display(vector<int>&v)
                 12
13 *
                   14 for(int i=0;i<v.size();i++)
                  16
17 cout<<v[i]<<" ";
18
                  19 }
20 21 int main()
                   22
                 29
30
31
                                   v1.push_back(1);
                                   v1.push_back(5);
                   32
33
34
                                   v1.push_back(2);
                    35
                                     v1.push_back(3);
              1/ COULTRY[1](\),
                  18 19 } 20 21 int main() 22 23 { 24 25 vector<int> v1; 26 27 28
                    28
29 v1.push_back(1);
30
                   30 v1.push_back(5); 32 v1.push_back(2); 34 v1.push_back(3); 36 37 v1.push_back(3); 36 37 v1.push_back(3); 38 v1.push_back(3); 
                    38
39
vector<int> :: iterator p=v1.begin();
                    41 p=p+3;
42
43 v1.insert(p,9);
                     45 v1.erase(v1.begin()+2);
                                   display(v1);
                 }
```

```
34
35
36
37 *
38
         v1.push_back(3);
  39 vector<int> :: iterator p=v1.begin();
 40
 41
42
         p=p+3;
 42
43 v1.insert(p,9);
44
45 v1.erase(v1.begin()+2);
      display(v1);
}
✓ Marks: 1
                   X Negative Marks: 0
                                                                                                                                  ▲ Mark as error
  a) 1 5 2 9
  b) 1539
   c) 1593
   d) 1 5 2 3
```



```
70 i 1 Predict the output:
2 * #include <iostream>
3 * #include<string.h>
      10 ucc...
11 { num-n,
12 num1=n1; }
13 void display()
14 { cout<<num1; }
       21 d2.display();
22 return 0;
     ✓ Marks: 1
                        × Negative Marks: 0
                                                                                                                                       ▲ Mark as error
       b) 23 25 12 13.4
        b) 23 25 12 13
(71) i 1 What is the output of the code
     18
19
20
             char arr2[] = {1, 2, 3};
int n2 = sizeof(arr2)/sizeof(arr2[0]);
      21
24
25
             cout << arrMin<int, 10000>(arr1, n1) << endl;
cout << arrMin<char, 256>(arr2, n2);
return 0;
      26
                   × Negative Marks: 0

✓ Marks: 1

                                                                                                                                      A Mark as error
      م) 10
               int n1 = sizeof(arr1)/sizeof(arr1[0]);
       19
       20
21
24
             char arr2[] = {1, 2, 3};
int n2 = sizeof(arr2)/sizeof(arr2[0]);
       25
26
              cout << arrMin<int, 10000>(arr1, n1) << endl;
cout << arrMin<char, 256>(arr2, n2);
                                                                                                                                       ▲ Mark as error
      ✓ Marks: 1
                         X Negative Marks: 0
```