Last name		
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First Name _____

```
Question 1. What is the output of this code segment?
```

```
stack<int> s, t;
s.push(68);
s.push(25);
s.push(99);
s.push(46);
s.push(72);
s.push(13);
int x = 0;
int len = s.size() - 3;
for (int i = 1; i <= len; ++i)
{
      x = s.top();
      s.pop();
      t.push(x);
len = s.size() - 3;
for (int i = 1; i <= len; ++i)
{
      x = t.top();
      t.pop();
      s.push(x);
cout << x;
```

Question 2. What is the output of this code segment?

```
void check(vector<int>& v, int sum)
{
    int size = static_cast<int>(v.size());
    for (int i = 0; i < size; ++i) sum += v[i];
}
int main()
{
    vector<int> v;
    int sum = 0;
    for (int cnt = 0; cnt < 3; ++cnt) v.push_back(cnt + 1);
    check(v, sum);
    sum += v[2];
    cout << sum;
    return 0;
}</pre>
```

Question 3. What is the output of this code segment?

	ANSWERS		
1	46		
2	3		
3	954257		

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First Name _____

```
Question 1. What is the output of this code segment?
       queue<int> q, t;
       q.push(81);
       q.push(35);
       q.push(27);
       q.push(78);
       q.push(14);
       int x = 0;
       int len = q.size() - 2;
       for (int i = 1; i <= len; ++i)
       {
              x = q.front();
              q.pop();
              t.push(x);
       len = q.size() - 2;
       for (int i = 1; i <= len; ++i)
       {
              x = t.front();
              t.pop();
              q.push(x);
       cout << x;
Question 2. What is the output of this code segment?
       void check(vector<int>& v, int sum)
       {
              int size = static cast<int>(v.size());
              for (int i = 0; i < size; ++i) sum += v[i];</pre>
       int main()
              vector<int> v;
              int sum = 0;
              for (int cnt = 1; cnt < 4; ++cnt) v.push back(cnt + 1);</pre>
              check(v, sum);
              sum += v[2];
              cout << sum;</pre>
              return 0;
       }
```

	ANSWERS
1	27
2	4
3	542779

estio	n 3. Wr	nat is the o	utput of th	nis co	de segr	ment?					
	vector	<int> v :</int>	= { 2, 5,	, 4,	4, 5,	9, 7,	2, 4,	9,	7,	5	};
	vector	<int>::i</int>	terator i	iter	= v.be	egin()	+ 1;				
	int i	= 1;									
	while	(i < 4)									
	{										
		++iter;									
		cout <<	iter[2];								
		cout <<	*(iter +	1);							
		iter +=	2;								
		++i;									
	}	-									

Last name		

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Question 1. What is the output of this code segment?

```
int a = 6, b = 3, c = 5;
stack<int> s;
s.push(a);
s.push(b);
s.push(c);
++a;
a = s.top();
s.pop();
s.push(b);
s.push(a);
c = a;
s.push(c);
while (!s.empty())
      a = s.top();
       s.pop();
       cout << a;
}
```

Question 2. What is the output of this code segment?

```
void check(vector<int> v, int& sum)
{
     int size = static_cast<int>(v.size());
     for (int i = 1; i < size; ++i) sum += v[i];
}
int main()
{
     vector<int> v;
     int sum = 0;
     for (int cnt = 0; cnt < 4; ++cnt) v.push_back(cnt + 1);
     check(v, sum);
     sum += v[2];
     cout << sum;
     return 0;
}</pre>
```

Question 3. What is the output of this code segment?

	ANSWERS		
1	55336		
2	12		
3	749549		