```
1 // min() and max() using templates
 3 #include <iostream>
 4 using namespace std;
6 template <typename T>
7 T min(T* begin, T* end) {
       T min_value = *begin++;
8
9
       while (begin != end) {
10
11
           if (*begin < min_value)</pre>
               min_value = *begin;
12
13
           begin++;
14
15
16
       return min_value;
17 }
18
19 template <typename T>
20 T max(T* begin, T* end) {
21
       T max_value = *begin++;
22
23
       while (begin != end) {
24
           if (*begin > max_value)
25
               max_value = *begin;
26
           begin++;
27
28
29
       return max_value;
30 }
1 1. Pair<T>
2 2. p.max_value = *begin;
3 3. p.min_value = *begin;
1 template <class T>
 2 void myVector<T>::push_back(const T &value) {
       if (length == capacity) {
3
 4
           T* new_storage = new T[capacity*2];  // dynamic allocation of template-type
   array
 5
           capacity *= 2;
 6
           for (int i = 0; i < length; i++)
 7
               new_storage[i] = arr[i];
8
           T* temp = arr;
9
           arr = new_storage;
10
           delete [] temp;
       }
11
       arr[length++] = value;
12
13 }
```

1 #include <iostream>

```
2 using namespace std;
 3
 4 template<class T>
 5 class test {
6 public:
       test (T str): m_value(str) {}
 7
      T front(){return m_value;}
 9 private:
      T m_value;
10
11 };
12
13 int main() {
       test<char*> s("Hello World!");
14
15
       cout << s.front() << endl;</pre>
16 }
```