

Deque Solutions

Deque

- Describe the main differences between a deque and a vector
 - deque supports `push_front()` as well as `push_back()`
 - vector stores its data in a single memory block, while deque stores its data in several memory blocks
- Convert the sample code on Page Two into a full working program.
What output do you expect to see?
 - 3, 5, 1, 4, 2, 3, 5, 1, 4, 2,

Deque example

```
deque<int> dq{4, 2, 3, 5, 1};
```

```
dq.push_back(4);
```

```
dq.push_back(2);
```

```
dq.push_front(1);
```

// Add element with value 1 before all the other elements

```
dq.push_front(5);
```

// Add element before all the other elements, including element 1

```
dq.push_front(3);
```

// Add element before all the other elements, including element 5

```
for (auto it: dq) {  
    cout << it << ",";  
}
```