

Test1 example:

```
m 2
push_back "google" "www.google.com"
print
push_back "bored" "www.boredpanda.com"
print
push_back "uw" "www.uwaterloo.ca"
print
exit
```

Test2 example:

```
m 50
print
push_front "google" "www.google.com"
push_back "google" "www.google.com"
push_front "amazon" "www.amazon.com"
push_back "netflix" "www.netflix.com"
front
back
find "netflix"
pop_back
find "netflix"
find "amazon"
pop_front
find "amazon"
find "google"
pop_front
find "google"
pop_back
find "google"
print
exit
```

## 5. Performance

All other member functions except find, clear, print ran at  $O(1)$ . To achieve  $O(1)$ , I made it a priority to not use any loops or iterations to perform the tasks for adding and removing elements to the front and back. Since find, clear, and print requires iterating through the deque to complete the purpose of those functions, the runtime for those functions is  $O(n)$ .