CSE310 Project01 Unposted Test Cases

Test case 1: Content of HEAPinput.txt 12 9 10 11 12 2 4 6 5 3 1 7 Commands are: C 20 R D 1 I 1 1 W S **Output:** C 20 COMMAND: C 20. R COMMAND: R. D 1 COMMAND: D 1. I 1 1 COMMAND: I 1 1. COMMAND: W. The capacity is 20. Size is 12. 1 3 2 5 7 4 6 11 12 10 9

```
8
S
```

COMMAND: S.

The program is going to be terminated.

```
Grading criteria: If the program passes this test case, then 4 marks will be awarded.
Test case 2:
Content of HEAPinput.txt
12
9
10
11
12
2
4
6
5
3
1
7
Commands are:
C 20
R
K 1 6 7
K 166
D 1
W
S
Output:
C 20
COMMAND: C 20.
COMMAND: R.
K 1 6 7
COMMAND: K 1 6 7.
K 166
COMMAND: K 1 6 6.
D 1
COMMAND: D 1.
W
COMMAND: W.
The capacity is 20.
Size is 11.
2
3
4
5
```

```
7
6
6
11
12
10
9
S
COMMAND: S.
The program is going to be terminated.
Grading criteria: If the program passes this test case, then 4 marks will be awarded.
Test case 3:
Content of HEAPinput.txt
12
9
10
11
12
2
4
6
5
3
1
7
8
Commands are:
C 20
R
I 1 5
W
S
Output:
C 20
COMMAND: C 20.
COMMAND: R.
I 1 5
COMMAND: I 1 5.
COMMAND: W.
The capacity is 20.
Size is 13.
```

```
5
6
5
12
10
9
11
8
S
COMMAND: S.
The program is going to be terminated.
Grading criteria: If the program passes this test case, then 4 marks will be awarded.
Test case 4:
Content of HEAPinput.txt
12
9
10
11
12
2
4
6
5
3
1
7
Commands are:
C 20
R
K 1 11 -2
W
S
Output:
C 20
COMMAND: C 20.
COMMAND: R.
K 1 11 -2
COMMAND: K 1 11 -2.
W
COMMAND: W.
The capacity is 20.
Size is 12.
-2
1
4
```

```
28
6
5
12
10
7
11
COMMAND: S.
The program is going to be terminated.
Grading criteria: If the program passes this test case, then 4 marks will be awarded.
Test case 5:
Content of HEAPinput.txt
12
9
10
11
12
2
4
6
5
3
1
7
8
Commands are:
C 20
R
I 2 12
W
S
Output:
C 20
COMMAND: C 20.
COMMAND: R.
I 2 12
COMMAND: I 2 12.
The capacity is 20.
Size is 12.
1
2
4
3
7
```

```
6
5
12
10
9
11
The capacity is 20.
Size is 13.
2
4
3
7
8
6
5
12
10
9
11
12
COMMAND: W.
The capacity is 20.
Size is 13.
2
4
3
7
8
6
5
12
10
9
11
12
S
COMMAND: S.
The program is going to be terminated.
Grading criteria: If the program passes this test case, then 4 marks will be awarded.
Test case 6:
Content of HEAPinput.txt
100
```

```
E 3 2 1 1 Commands are: C 100 R I 1 1 I 1 -1 W S Output: (see attached files)

Grading criteria: If the program passes this test case, then 10 marks will be awarded.
```