Program Design Assignment 4 Test Cases

Testcase 1. Input: р t b i 10 i 5 i 6 i 3 р t b е Output: NULL NULL NULL 3 5 6 10 10536 36510 Testcase 2: Input: i 20 i 30 i 15 i 25 р s 35 s 30 е Output: 15 20 25 30 NOT PRESENT **PRESENT Testcase 3:** Input: i 2

Q1

```
i 3
```

i 15

i 25

р

t

b

e

Output:

2 3 15 25

2 3 15 25

25 15 3 2

Testcase 4:

Input:

i 10

i 5

i 3

i 6

i 20

i 13

i 27

d 10

t

b

е

Output:

13 5 3 6 20 27

3 6 5 27 20 13

Testcase 5:

Input:

i 20

i 30

i 15

i 25

d 20

d 25

р

t

b

е

Output:

15 30

30 15

Q2 Testcase 1. Input: i 3 i 5 i 7 i 1 i 6 s 3 s 9 m е Output: PRESENT NOT PRESENT 7 Testcase 2: Input: i 1 i 2

i 3

i 4

i 5
k 5
m
s 3
е
Output:
5
5
PRESENT
Testcase 3:
Input:
i 20
i 25
i 15
i 35
i 10
i 40
i 5
m
s 35
s 60
k 1
k 2
n 15

е
Output:
40
PRESENT
NOT PRESENT
5
10
20
Testcase 4:
Input:
i 100
i 200
i 90
i 80
i 250
i 70
i 55
i 60
m
n 200
d 300
d 250

m

s 250
k 1
k 7
е
Output:
250
250
NOT PRESENT
200
NOT PRESENT
55
200
Testcase 5:
Input:
i 100
i 150
i 150 i 50
i 50
i 50 i 70
i 50 i 70 k 1
i 50 i 70 k 1 i 40
i 50 i 70 k 1 i 40 k 1
i 50 i 70 k 1 i 40 k 1 m

```
d 50
n 40
n 100
d 100
s 100
е
Output:
50
40
150
PRESENT
NOT PRESENT
70
150
NOT PRESENT
Q3
Test Case 1:
Input:
(15(14(71(96()())(49(45()())))(20()(8()())))(61()(2()())))
14
2
Output:
96 49 8
Test Case 2:
Input:
(15(14(2()(8()()))(20()()))(61(49(45()()))(71()(96()()))))
14
```

```
2
Output:
8
Test Case 3:
Input:
(15(14(2()(8()()))(20()()))(61(49(45()()))(71()(96()()))))
15
3
Output:
8 45 96
Test Case 4:
(15()(13()(14()(61()(71()(20()(2()(49()(45()(96()(8()()))))))))))
15
Output:
71
Test Case 5:
Input:
(15(14()())(61()()))
15
1
Output:
14 61
```