

Program working with miniheaps. Program use two file: input.txt (for commands) and output.txt (for output data). We can use 4 commands:

I #1 (Insert number #1)
C #1 #2 (Change all numbers #1 to #2)
D #1 (Delete all numbers #1)
P (Print all numbers)

Examples of working program

Test #1

input.txt

I 1
I 40
I 30
P
I 20
P
C 20 30
P
D 30
P

output.txt

1, 40, 30
1, 40, 30, 20
1, 40, 30, 30
1, 40

Test #2

input.txt

I 1
I 2
I 3
I 3

P

C 3 10

P

C 2 12

P

D 10

P

output.txt

1, 2, 3, 3

1, 2, 10, 10

1, 12, 10, 10

1, 12

Test #3

input.txt

I 1

I 2

I 30

D 1

P

C 30 10

I 10

P

D 10

P

I 13

P

output.txt

2, 30

2, 10, 10

2

2, 13