Sample Input File:

(Create,H), (Trace,H,true), (Insert,H,2), (Insert,H,10), (Insert,H,5), (Insert,H,25), (Insert,H,3), (Findmin,H), (Extractmin,H), (Decreasekey,H,25,10), (Insert,H,40), (Create,Y), (Trace,Y,true), (Insert,Y,70), (Insert,Y,62), (Insert,Y,19), (Insert,Y,45), (Extractmin,Y), (Merge,H,Y,k), (Display,k)

Result:

Heap H:

Insert: 2, 10, 5, 25, 3

(2()->10()->5()->25()->3()->)

Findmin: 2

Extractmin:

(3(5(10()->)->25()->)->)

Decreasekey (25,10)

(3(5(10()->)->10()->)->)

Insert: 40

(3(5(10()->)->10()->)->40()->)

Heap Y:

Insert: 70, 62, 19, 45

(19()->62()->70()->45()->)

Extractmin:

(45()->62(70()->)->)

Heap k:

Merge H,Y,K

(3(5(10()->)->10()->)->40()->45()->62(70()->)->)

Command Line Interface:

```
1. Create Heap
2. Insert
3. Merge heaps
4. Find minimum element
5. Extract minimum element
6. Decrease Key
7. Free Heap
8. Display heap
9. Trace
10. Exit
```