

# Data Structures and Algorithms

## Assignment - X BINOMIAL HEAP

### 1. INSERTIONS

```
one@R06:~/Repo/DSA/10$ gcc bp.c -o bp
one@R06:~/Repo/DSA/10$ ./bp

1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: 1
Enter key to insert: 12

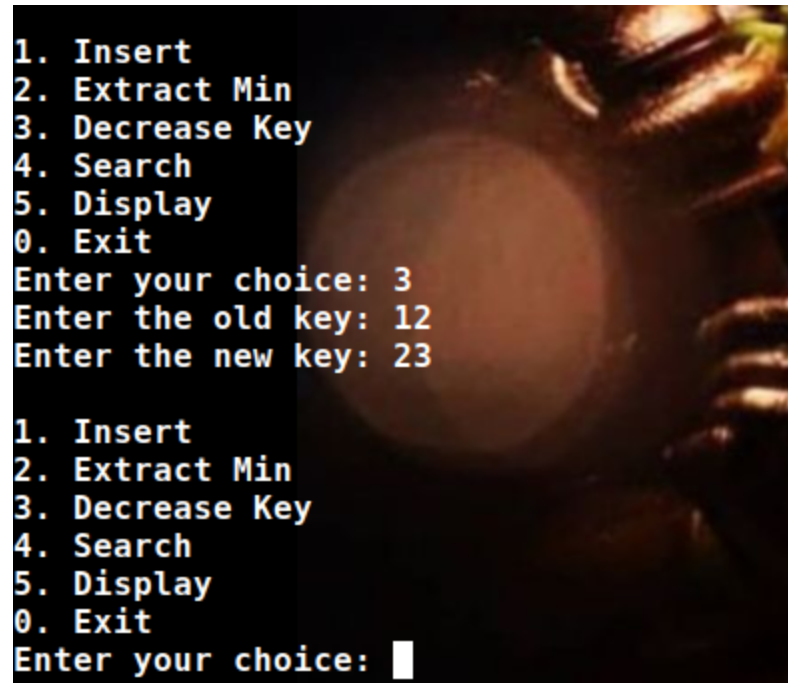
1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: 1
Enter key to insert: 23
```

### 2. EXTRACT

```
1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: 2

1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: 
```

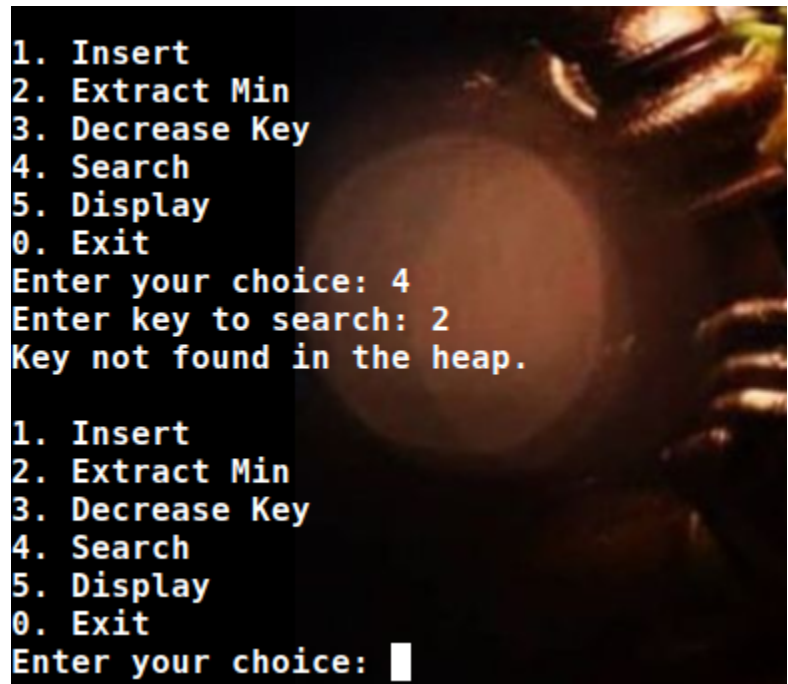
### 3. DECREASE KEY



```
1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: 3
Enter the old key: 12
Enter the new key: 23
```

```
1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: █
```

#### 4. SEARCH



```
1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: 4
Enter key to search: 2
Key not found in the heap.
```

```
1. Insert
2. Extract Min
3. Decrease Key
4. Search
5. Display
0. Exit
Enter your choice: █
```