Here is one example of running the program. The blue lines describe your input in the terminal. The ID can be any short string.

Type in terminal: ./Firstname Lastname

banner id: 903900281

ID PRIORITY RUNTIME--->PCB[0]

Type in terminal: AA 1 1

ID PRIORITY RUNTIME--->PCB[1]

Type in terminal: BB 8 2

ID PRIORITY RUNTIME--->PCB[2]

Type in terminal: CC 2 3

ID PRIORITY RUNTIME--->PCB[3]

Type in terminal: DD 0 4

ID PRIORITY RUNTIME--->PCB[4]

Type in terminal: EE 0 5

```
banner_id: 903900281
ID PRIORITY RUNTIME--->PCB[0]
AA 1 1
ID PRIORITY RUNTIME--->PCB[1]
BB 8 2
ID PRIORITY RUNTIME--->PCB[2]
CC 2 3
ID PRIORITY RUNTIME--->PCB[3]
DD 0 4
ID PRIORITY RUNTIME--->PCB[4]
EE 0 5
```

```
Before run, the condition is:
ID PRIORITY RUNTIME STATUS
AA
        1
                   1
                           R
        8
                   2
\mathsf{BB}
                           R
CC
        2
                   3
                           R
DD
       0
                   4
                           R
                   5
                           R
ΕE
       0
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
        1
                   1
                           R
BB
        7
                   1
                           R
\mathsf{CC}
        2
                   3
                           R
DD
       0
                   4
                           R
ΕE
                           R
        0
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
                             R
        1
                     1
        6
\mathsf{BB}
                     0
                             F
\mathsf{CC}
        2
                    3
                             R
DD
        0
                     4
                             R
EE
        0
                     5
                             R
press any key to continue...
```

You can press enter

```
ID PRIORITY RUNTIME STATUS
AA
        1
                   1
                           R
BB
        6
                   0
                           F
\mathsf{CC}
                           R
        1
                   2
DD
        0
                   4
                           R
ΕE
                           R
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
                 0
                         F
AA
       0
BB
       6
                 0
                         F
                 2
\mathsf{CC}
       1
                         R
DD
       0
                 4
                         R
                 5
                         R
EE
       0
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
                 0
                         F
       6
BB
                 0
                         F
\mathsf{CC}
       0
                         R
                 1
DD
       0
                 4
                         R
                 5
                         R
EE
press any key to continue...
```

You can press enter

```
ID PRIORITY RUNTIME STATUS
AA
       0
                  0
                          F
BB
       6
                  0
\mathsf{CC}
                  0
      -1
DD
       0
                          R
                  4
ΕE
       0
                  5
                          R
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
        0
                    0
                            F
        6
                   0
                            F
\mathsf{BB}
\mathsf{CC}
       -1
                    0
DD
       -1
                   3
                            R
EE
                    5
        0
                            R
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
       0
                  0
                         F
BB
       6
                  0
                         F
\mathsf{CC}
                  0
      -1
DD
      -1
                  3
                         R
                         R
EE
      -1
press any key to continue...
```

You can press enter

```
ID PRIORITY RUNTIME STATUS
       0
AA
                  0
                          F
       6
\mathsf{BB}
                  0
                          F
CC
      -1
                  0
      -2
DD
                  2
                          R
EE
      -1
                  4
                          R
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
                         F
                  0
BB
       6
                  0
                         F
\mathsf{CC}
                  0
                         F
      -1
DD
      -2
                  2
                         R
      -2
EE
                  3
                         R
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
       0
                  0
                         F
       6
BB
                  0
                         F
\mathsf{CC}
                  0
      -1
                         F
DD
      -3
                  1
                         R
                  3
                         R
EE
      -2
press any key to continue...
```

You can press enter

```
ID PRIORITY RUNTIME STATUS
AA
       0
                  0
                          F
BB
       6
                  0
                          F
\mathsf{CC}
      -1
                  0
                          F
DD
      -3
                  1
                          R
EE
                  2
      -3
                          R
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
                   0
                            F
        6
                   0
\mathsf{BB}
                            F
\mathsf{CC}
                   0
       -1
DD
                   0
                            F
       -4
EE
       -3
                    2
                            R
press any key to continue...
```

```
ID PRIORITY RUNTIME STATUS
AA
       0
                 0
                         F
BB
       6
                 0
                         F
\mathsf{CC}
                 0
      -1
DD
     -4
                 0
EE
      -4
                 1
                         R
press any key to continue...
```

You can press enter

```
ID PRIORITY RUNTIME STATUS
AA
       0
                 0
                         F
BB
       6
                 0
                         F
\mathsf{CC}
                 0
      -1
                         F
DD
                  0
                         F
      -4
EE
      -5
                  0
press any key to continue...
```