Required files: main.c Bin.c Bin.h FileIO.c FileIO.h Item.c Item.h Offline.c Offline.h Online.c Online.h binItems.txt bins.txt

Makefile is included.

Make will run command “gcc main.c Bin.c FileIO.c Item.c Offline.c Online.c” and produce “a.out”.

No user input is required.

Sample run with Items: 34, 45, 27, 19, 7, 46, 45, 34, 23, 12 , 4, 50

Run 1

#If item cannot fit, it will be displayed here

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|Policy |Total Bins Used|

|Online Algorithm | |

| First Fit | 05 |

| Next Fit | 06 |

| Best Fit | 05 |

|Offline Algorithm | |

| First Fit | 06 |

| Best Fit | 05 |

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Online Algorithm

First Fit

83/83 : 4, 45, 34,

76/86 : 23, 7, 19, 27,

58/77 : 12, 46,

45/65 : 45,

84/93 : 50, 34,

Next Fit

79/83 : 45, 34,

53/86 : 7, 19, 27,

46/77 : 46,

45/65 : 45,

73/93 : 4, 12, 23, 34,

50/85 : 50,

Best Fit

79/83 : 45, 34,

84/93 : 50, 34,

45/65 : 45,

58/77 : 12, 46,

80/86 : 4, 23, 7, 19, 27,

Offline Algorithm

First Fit

65/83 : 23, 19, 12, 7, 4,

61/86 : 34, 27,

34/77 : 34,

45/65 : 45,

91/93 : 46, 45,

50/85 : 50,

Best Fit

50/83 : 50,

76/93 : 7, 12, 23, 34,

64/65 : 19, 45,

72/77 : 27, 45,

84/86 : 4, 34, 46,