



Assignment 2 back soon (sorry for the delay!)

Assignment 4 out soon due Sunday



































• If you have an application that needs it to be O(1), this implementation will not work!

amortized analysis give you the cost of *n* operations (i.e. average cost) **not** the cost of any individual operation

















































Insertion: 1 2 3 4 5 6 7 8 9 10

size: 1 2 4 4 8 8 8 8 16 16

cost: 1 2 3 1 5 1 1 1 9 1 bank: 2 3 3 5 3 5 7 9 3

Try insert: 3

47

45





























Another set data structure Insert Insert Insert Starting at i = 0 Current = [item] Start long as the level *i* is full merge current with *Ai* using *merge* procedure store to current *Ai* = empty i++ *Ai* = current

running time?

64







67

66



