## Chapter 17

a) Agguergate method:

$$= 3n/n = 3$$

$$Am = O(1)$$

b) Accounting method

Insertion w/o expansion : (1 3)
Insertion with expansion : (2-1) 3

... Insolton w/o expansion: Bank is created \$1 (i.e.) 3-i=2.

Insolton with expansion: Bank: 3-(i-i)=4-i

Expansion happen only when i= power of 2. :. for each expansion, i-1 insentions

Total Ost = 
$$\left(\frac{\ell-1}{2} - \frac{\ell-1}{2}\right) \times 2 + (4-\ell)$$
  
=  $2\left(\frac{\ell-1}{2}\right) + (4-\ell)$ 

.. The AM colt for insertion is 3.

sin a both bollance  $\geq 0$  at all times.

: AM = O(1)