Amortized Analysis: Aggregak

$$\frac{i}{60} = \frac{1}{100} + \frac{3}{100} = \frac{1}{100} + \frac{1}{100} = \frac{1}{100} + \frac{1}{100} = \frac{1}{100} + \frac{1}{100} = \frac{1}$$

Accounting i &= n+51

We show that if each operation deposits (n+51) dollars into the account, then the bank will never so below O.

Suppose for some JE[1-1], we have made J insertrons, we show the bank account is 201

Total deposits after j operations: j(n+51). Total withdrawls:  $j+\frac{2}{\xi-1}100j=\pm j^2+51j=j(\pm j+51)$ .

Since 125, we have  $(n+51) \ge (\pm 5+51)$ , and therefore the bank is  $\ge 0$ .