Question 3. push () Just pushes item onto stack. C = 0(1) DI = (N+1)-N=1 amortised cost = $c+\Delta \Phi = O(1)+1 = O(1)$ pop () Just pops item off stack. C=0(1)

A里=N-(N-1)=1 amortised cost = C+1 = 0(1)+1=0(1) flush()

Equivalent to pop () for all N items c=0(N) D重=0-N=-N

amortised cost = $C + \Delta \mathcal{D} = O(N) - N = O(1)$