Nhat Ho 105355311 The Switch has been in possidor O 20K2 for a long the wehave OKR a circuit which the capacitor is open circuit to DC, so. T 1000 V 1000  $-) V_{c}(0^{-}) = 100V)$ When Switch more to position (2). at  $t \to 0^{\dagger}$ , we have  $V_{c}(0^{-}) = V_{c}(0^{\dagger}) = 100(V)$ Be cause the capacitor will not allow in startaneous change in voltage. And we have: T = RC = 20×103× 0.5×10-6 = 0.01 (see) 0.5MF Since the capacitus acts like an open circuit to De for a lay time => [Uc = 50 V T 50V