Program to demo the elevator interface. # include 2 stdio. hr # include < reg 51. h7 uniqued das xdata (omnadword - at - 0xe 803) uniqued des xolata PortA -at- 0xe 800; uniqued char xdata Ports -ot - 0xe 801; uniqued don x data besent Hoor, Requested Hood, alop = 0x60; uniqued long xdata (out, i) Delay () for ( (out = 0; (out c= 4500; (out ++)); first () step = step & oxof; PortA = Step; step = Step 10xf0; PostA = Slip; youp 1) moitch (Regneted Floor) 0xod: while lotep < 0xf3) detep++, PortA = Step; Deloy ()

while ( other < 0 x 6) ax oxob: BodA = Stap; Aday (); Pert ()', break; 0x07; which (Alap c 0x F9) Port A = Step; Dolay (1) be eak, yo Down()

desit in (Required Flood)

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(are oxod: while (Atap > 0xf3)

Port A = step;

Pulay(); break,

while (etter >0xf6) PostA = Step; Aday (), Rest (); break', 0x0e: wohile (otet > 0xf0) PostA = Stap; Dolay (); leset (); break', void main!) endword = 0x82'/ PotA = 0xfo; Present Floor = 0xDe; while (1) of legueted Hood = Portb; Reputed Floor = Request of Floor 20x0f; if [ Reputal Floor != 0x0x se requested floor != Present Floor) } if ( Reguested Floor C Present Floor) Present floor - Requested floor; Requested Flows = Port B;