Input
      User cartridge barcode.

Output
      Slot of 10 cartridge which is belong to that user.

Algorithm

Step1:-   Enter the Barcode of 1st cartridge from that slot belong to that user.

Step2:-   Check if the barcode is valid for that user otherwise generate an error message
      And if the barcode is valid then go to next step.

Step3:-   Update c value

Step4:-   Read then barcode from c^{th} position and decrement value of c

Step5:-   Search for that barcode in even or odd tempMatrix then dislocate that memory space
      and update upper and lower position status of RTL.

Step6:-   Make delay of approximate 2sec

Step7:-   Store that barcode in IOstack.

Step8:-   Determine if value of c is not equal to 0 then go to **Step4 otherwise go to next step.**

Step9:-   End of the Program.

NOTE:- Assumptions

      evenTempMatrix[39][5] $\leftarrow$ 0, oddTempMatrix[39][5] $\leftarrow$0,
      evenMatrix[20][5] $\leftarrow$0,oddMatrix[20][5] $\leftarrow$0,
      inp1[10] $\leftarrow$0,n$\leftarrow$0,en$\leftarrow$0,od$\leftarrow$0,
      posi$\leftarrow$0,posj$\leftarrow$0,c$\leftarrow$0,x$\leftarrow$0,
      nIP$\leftarrow$0,id1$\leftarrow$0 ,id2$\leftarrow$0,id3$\leftarrow$0