DS-ALGORITHM FOR INSERTING NODE AT BEGINNING

09 August 2020
08:19

USED LINKED LIST

| 50 | 100 | → | 60 | 200 | → | 80 | NULL |

70   100   200
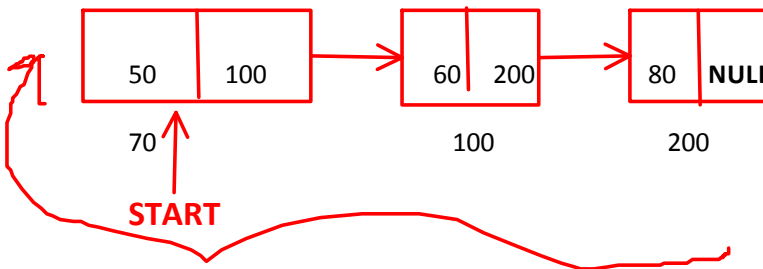
START

UNUSED LINKED LIST

| | | → | | | → | | |

60   80   120
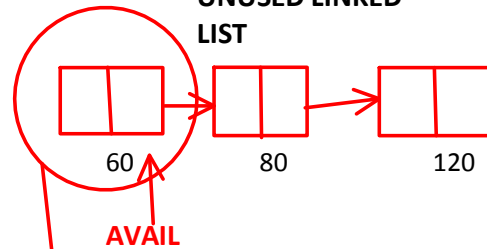
AVAIL

Insertbegin(start,avail,item)
if avail=null
    print "overflow
    condition"
    Exit
End if
save<-avail
avail<-link->avail
if start=null
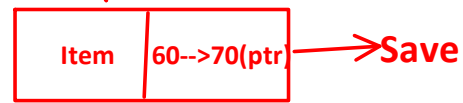**start<-save**
link->start<-null
data->start<-item
exit
ptr<-start
start->save
data->save<-item
link->save<-ptr
End

| Item | 60-->70(ptr) | →**Save**

Avail=null?

Avail<-link>avail

Avail->save

Ptr<-start

Start->save

Suppose we enter item=20

FINAL RESULT

| 20 | 70 | → | 50 | 100 | → | 60 | 200 | → | 80 | NULL |

60   **70**   **100**   **200**