```
class YoungTable {
 int A[]
 int size
 int row, col
 // Constructor( A , row , col ) { size = row * col; ... }
 idx2rc(k) // return(i, j)
 rc2idx(i,j)//returnk
 int getAt(i, j) // return a_ij
 setAt(i, j, x) // a_ij = x
 siftDown(i, j) // maintain the Young table if a_ij get decreased by swapping to the correct
position in the Young table
 buildYoungTable() {
   for i= row-1 downto 0
     for j=col-1 downto 0
       siftDown(i, j)
  }
```

<u>Main</u>

```
Let A be an array of size = row.col initialized by random integers

YoungTable z = new YoungTable( A, row, col )

z.buildYoungTable()

for i=0 to row-1

for j=0 to col-1

print(z.getAt(i, j))

print('\n')
```