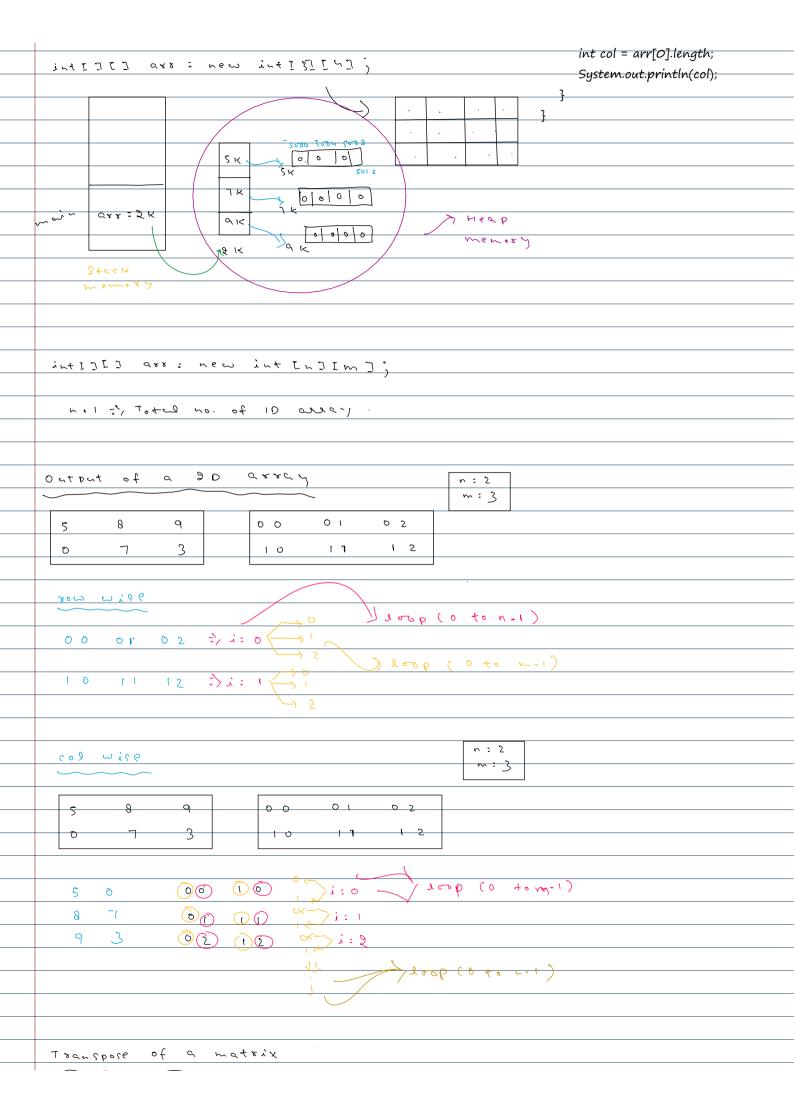
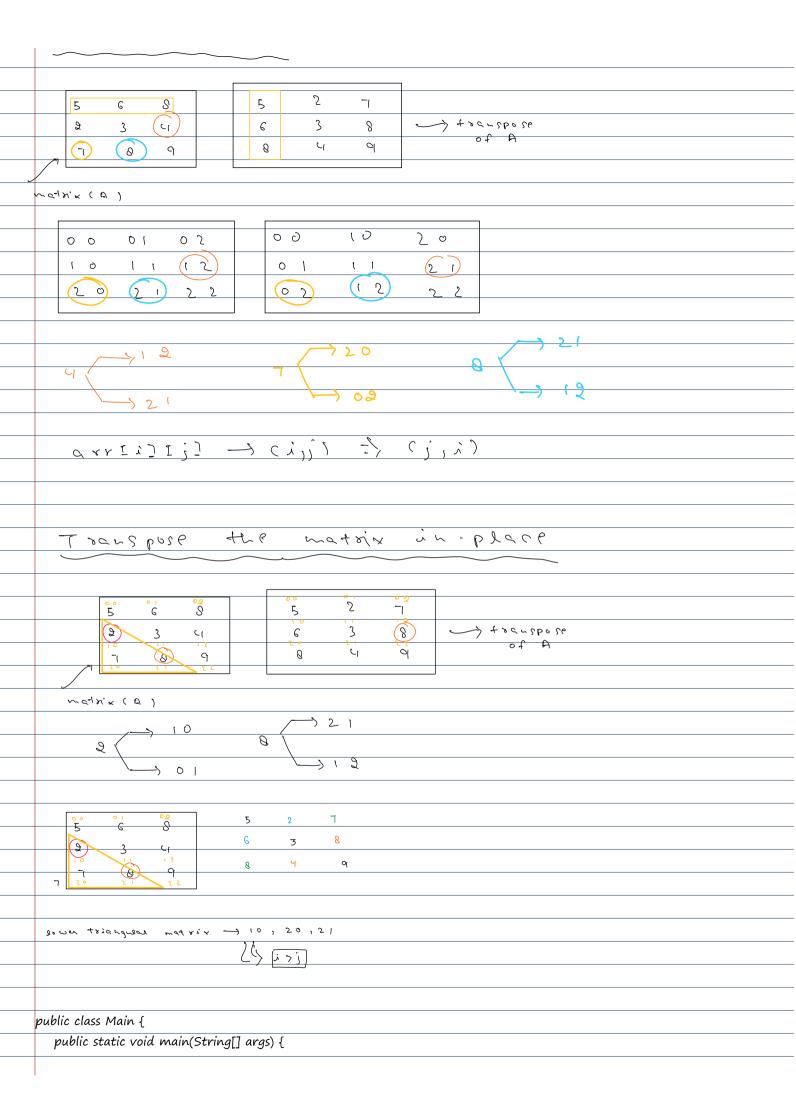
System.out.println(row);

2 D

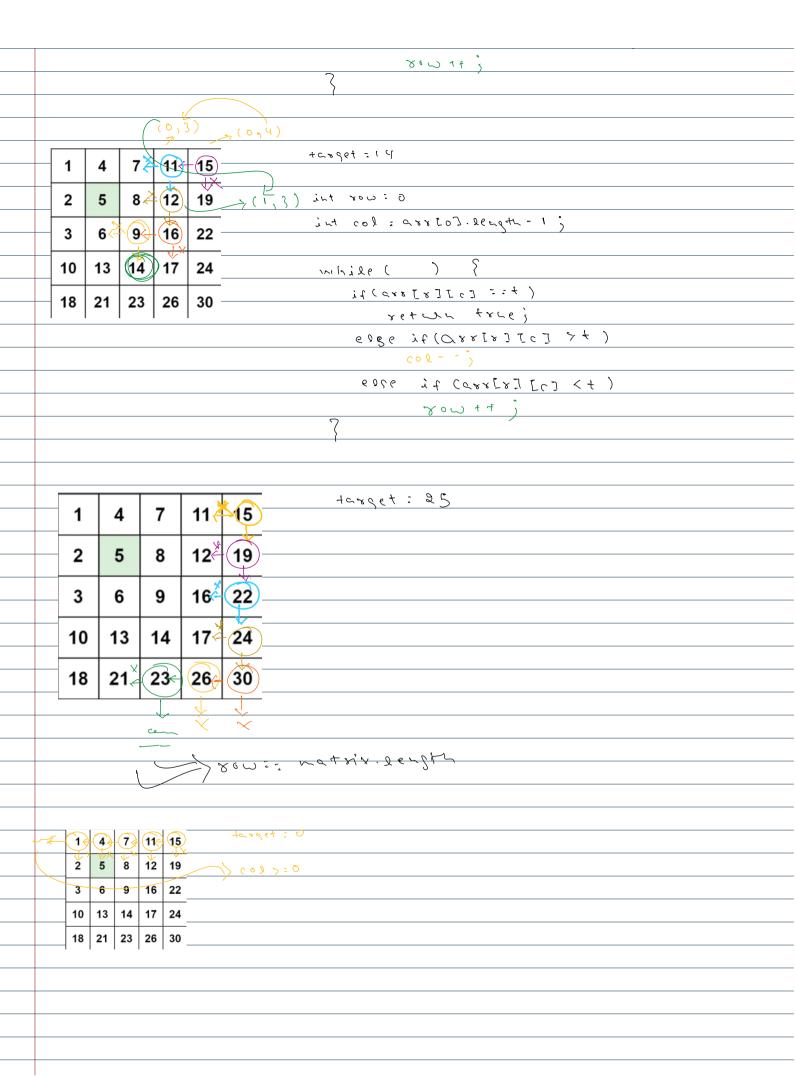
array contiguous memory allocation ?





```
int[][] arr = {
   {5, 8, 9},
   {0, 7, 3},
   \{1, 7, 9\}
};
int rows = arr.length;
int cols = arr[0].length;
for(int i=0; i<rows; i++){
   for(int j=0; j<cols; j++){
     System.out.print(i+" "+j+ " ");
   System.out.println();
System.out.println("***********);
for(int i=0; i<rows; i++){
   for(int j=0; j<cols; j++){
      System.out.print(arr[i][j]+" ");
   System.out.println();
System.out.println("**********);
for(int i=0; i<cols; i++){
   for(int j=0; j<rows; j++){
      System.out.print(j+" "+i+ " ");
   System.out.println();
7
System.out.println("**********");
for(int i=0; i<cols; i++){
   for(int j=0; j<rows; j++){
      System.out.print(arr[j][i]+" ");
   System.out.println();
System.out.println("***********);
for(int i=0; i<rows; i++){
   for(int j=0; j<cols; j++){
      System.out.print(arr[j][i]+" ");
   System.out.println();
```

```
for(int i=0; i<rows; i++){</pre>
      for(int j=0; j<cols; j++){
         if(i>j)
         swap(arr, i, j);
      }
    System.out.println("***********);
   for(int i=0; i<rows; i++){
      for(int j=0; j<cols; j++){
         System.out.print(arr[i][j]+" ");
      System.out.println();
 public static void swap(int[][] arr, int i, int j){
   int temp = arr[i][j];
   arr[i][j] = arr[j][i];
   arr[j][i] = temp;
 }
Search in a 2D Matrix II
                                         ~ -> cel 8
Linea Seach > O(n*m)
Binary Search on -1, O( n log m)
                                  target -> 14
                  (11)
  1
                                       cal: arrio].length - 1
                             ) (D, 3) w wile (___) {
  3
                  (16)
                                         [ +9/827: [ LOO] [ CO8 ] 8880) 1;
 10
       13
                  17
                       24
                                         erde it corr[200][Od] J40264)
 18
       21
                  26
                       30
                                         6866 yt COAR[ROM][COS] < 40864)
                                                 86W 18 5
```



	1	4	7	11	15
	2	5	8	12	15 19 OCNEW)
	3	6	9	16	22
\dashv	10	13	1/	17	22 24
\leftarrow	40	24	22	26	20
	18	21	23	26	30