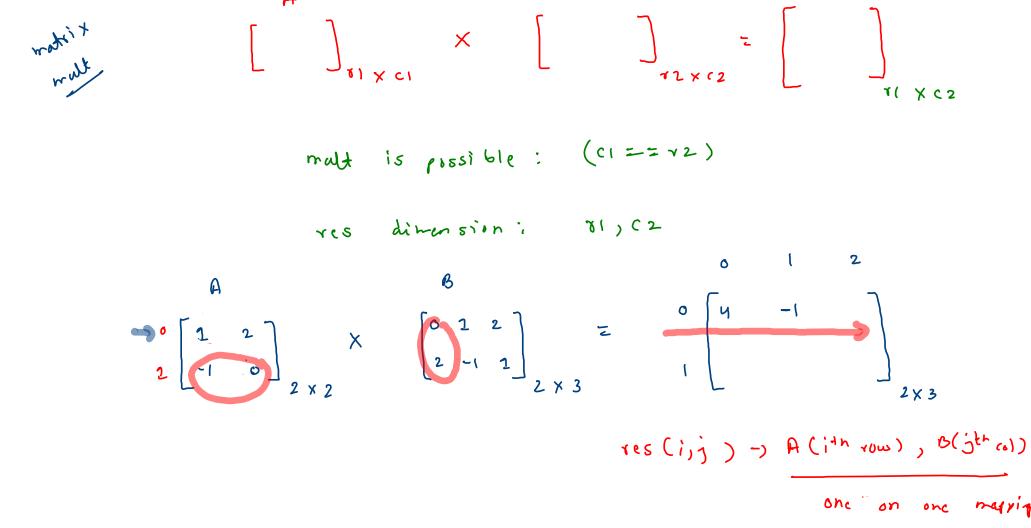
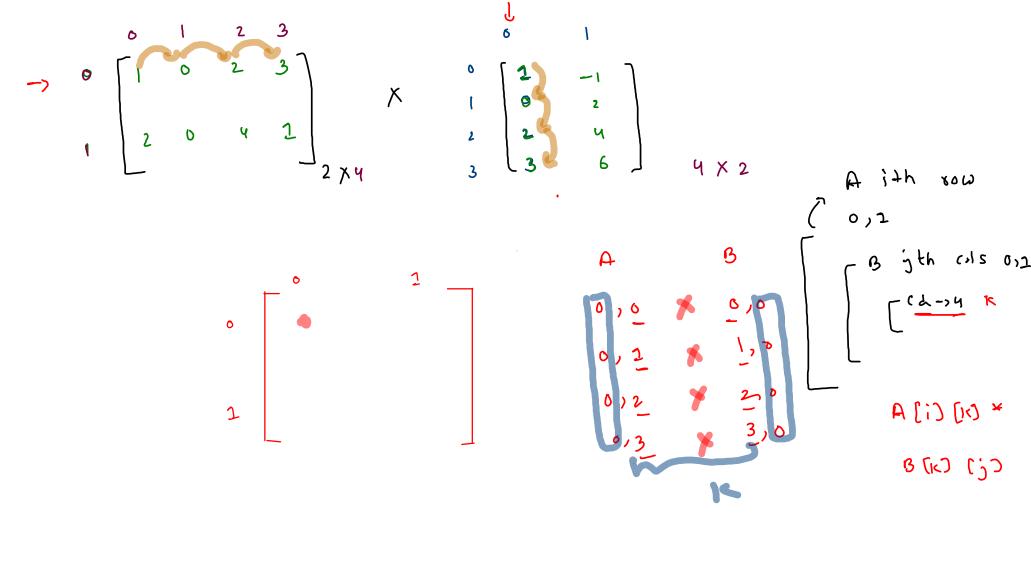


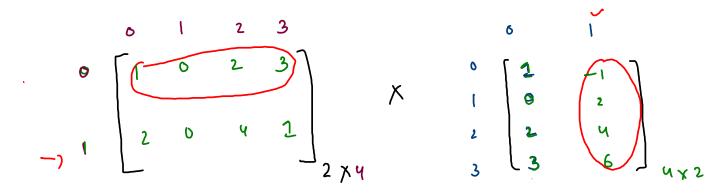
int [) arriz now int (S) (INE[])[) mat = new int [3][4]; o 1 2 3 rows cols 514 Cols Yous = mat. length

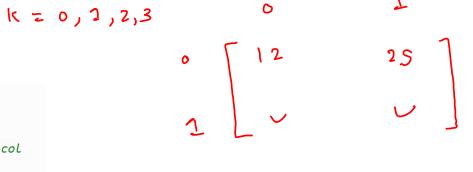
cols - most [0]. langth

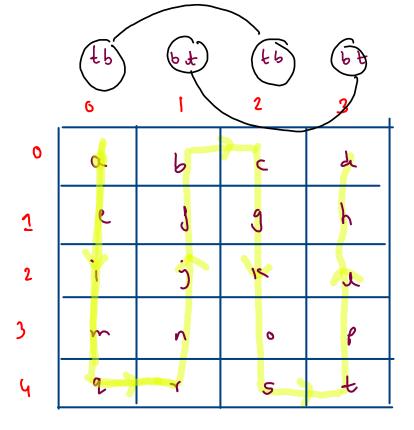


$$res[0][0] = A[0][0] + B[0][0] + A[0][1] + B[1][0] + A[0][1] + A[0][1] + B[1][0] + A[0][1] + A[0][1] + B[1][0] + A[0][1] + A[$$





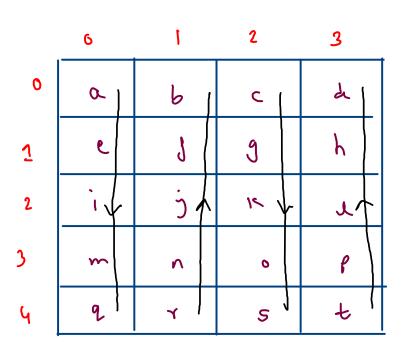




However, a certain visitor decides to travel a different path as follows:

- 1. He first travels southwards till no further south places are available.
- 2. He then moves only 1 place eastwards.
- 3. He starts to move again towards north till any further north moves are available.

This continues till all the places are covered.

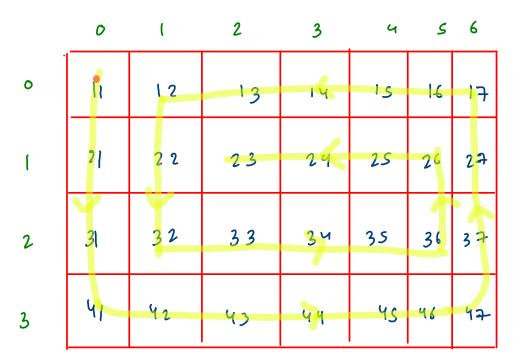


odd cols-) buttom
to top

even cols -, top to

e i m q r n j j b

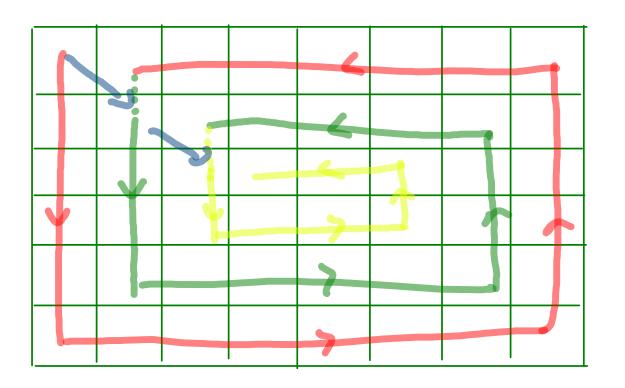
grostpund



11 21 31 41 42 43 49
45 46 47 37 27 17 16

15 14 13 12 22 32 33

34 35 36 26 25 24 23

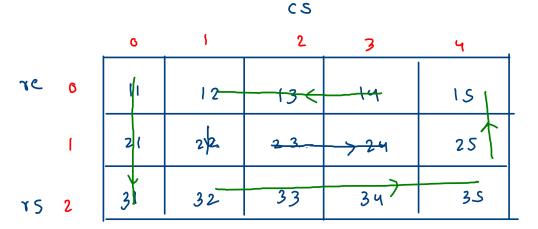


spiral is made of Shells.

```
show: 4 walls
           cS
              2
                   3
                                    Mest wall, bittom wall, sight wall,
              13 (14
          12
                      15 16 17
                                    top wall.
7S
          22
               23
                   29
                      25
                                           volt wall:
           32
               33
                      35
                   34
70
                                           Jir ( in+ r=18 ) r <= re ; r++) {
          42
                 744
                       45 46
              43
                                                syso ( mot [r] [cs])
    right wall
                                            (5++;
     Jon (int r = re ) x >= 15 ; r -- ) {
        sys ( mat [ 8 ) (ce))
                                            bottom wall i
                                            Joy ( int c = cs ) C = ce ) c+1) {
     Cc- - ;
                                                 Syso (mad [re] (c));
      top wall
     Jos (int c= (c) c>= cs; (--){
                                            re - - ;
          8950 ( mat [xs] [c]);
     15+4;
```

while (PS) < the) { CS CC 2 5 6 3 ugt wall: fir (In+ x = 16) r < = re ; x++) { 0 LIY. 13 syso (mot [r] [cs]); Psj++; 3 cs++; 20 the = 28 bottom wall i 25 33 34 2 35 Jov (int c= cs) c = ce) c++) { Syso (mad [re] (c)); PSJ++; 42 45 46 43 744 3 3 4e--; right wall for (int r = re) r >= rs ; r --> ? 42 11 21 31 41 43 syso (not [x) (ce)) , PSJ ++ j Cc--; 46 47 37 27 17 16 S top wall for (int c = (c) c>= (s) (--){ 32 33 34 35 36 5 yso (mot [+5] [c]); psj++; 13 12 22 26 25 24 23 15 ++)

```
while(psf < tne) {</pre>
   //Left wall
   for(int r=rs; r <= re;r++) {
       System.out.println(mat[r][cs]);
       psf++;
    cs++;
   //bottom wall
   for(int c=cs; c <= ce;c++) {
       System.out.println(mat[re][c]);
       psf++;
   re--;
   //right wall
   for(int r=re; r >= rs; r--) {
       System.out.println(mat[r][ce]);
       psf++;
    ce--;
   //top wall
   for(int c=ce;c >= cs;c--) {
       System.out.println(mat[rs][c]);
       psf++;
   rs++;
```



C Q

32

21

31

tne = 15

```
while(psf < tne) {</pre>
   //left wall
    for(int r=rs; r <= re && psf < tne;r++) {</pre>
        System.out.println(mat[r][cs]);
        psf++;
    cs++;
   //bottom wall
    for(int c=cs; c <= ce && psf < tne;c++) {</pre>
        System.out.println(mat[re][c]);
        psf++;
    re--:
                     T 33 F
   //right wall
    for(int r=re; r >= rs && psf < tne;r--) {</pre>
        System.out.println(mat[r][ce]);
        psf++;
    ce--;
   //top wall
    for(int c=ce;c >= cs && psf < tne;c--) {</pre>
        System.out.println(mat[rs][c]);
        psf++;
```

