```
IDENTIFICATION ?
     ARRAY -> Stack
                 > Heap (sort)
      BRUTE FORCE -> O(n2)
              for (int i=0; i(m; i++)
                  for (int j = 0; j<m; j++)
          Simple o(n2)
    for (int i=0; icm; i++)
          for (intj=0; j<i; j++)

dependent o
      [j = fum (i)] dependent o(n2)
            j \rightarrow 0 to i j++

j \rightarrow i to 0 j--

j \rightarrow i to m j++

j \rightarrow m to i j--
eg.O
   Next largest element: - Nearest greater to right.
      Brute force :-
             for (int i=0; i<m+; i++)
```

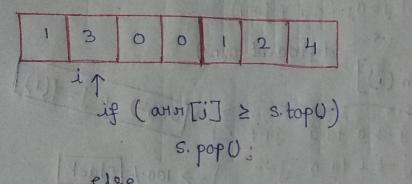
for (int j = i+1; j<m; j++) (Identification) -

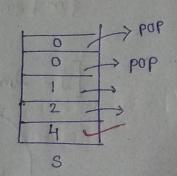
mow; we know; we have to use stack

there fore 'o' should be at the top as we have to compare the might most element

first. Again stack uses LIFO concept.

in To theat '0' first we must imput '0' at the last. . we have to travense the annay from the back.





\* else on else on sepush\_balle (s.top())

Life (s.emptyv) ans. push\_balle (s.top())

ans. push\_balle (s.top())

i--;

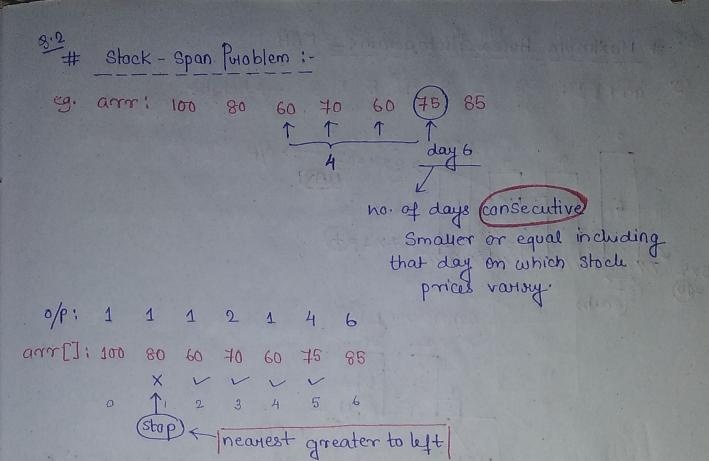
s. push\_balle (s.top())

i--;

complexity: o(n²) -> o(n)

At the end we will vieverse the array (ans array) as we are computing the ans in the vieverse fashion.

\*(例》(1) 图 4 4 2)



Brute force: for (int i=0; icm; i++)

for (int j=i;  $i \ge 0; j--$ )  $(o(m^2j) + (j-f(m) i)$ 

O(m²) + (j=f(m) i)

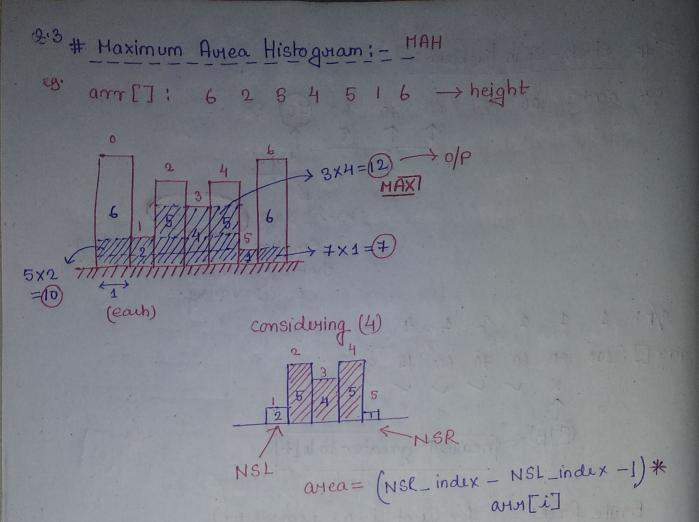
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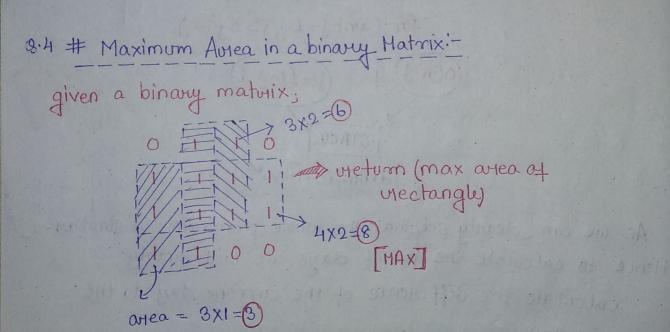
Identification

As we can clearly see that the whole programe is similar. Hence to calculate the no of days, we will simply calculate the difference of the current day to the not index.

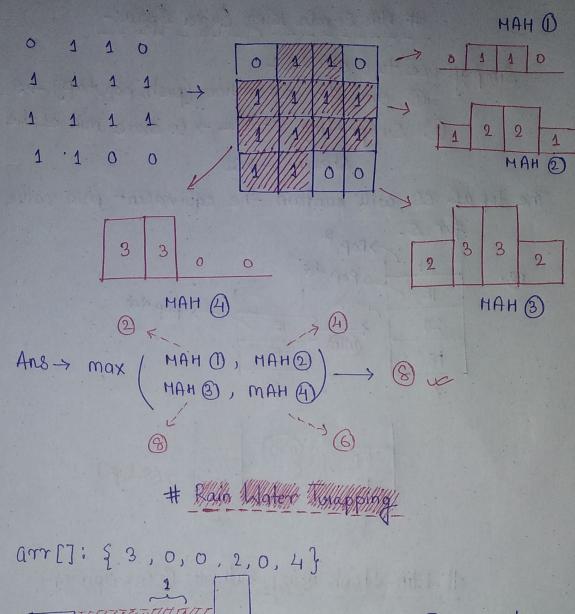
eg. for day  $5 \rightarrow 75$ ans  $[5] = 5 - (Stop \rightarrow index)$ = 5 - 1= 4

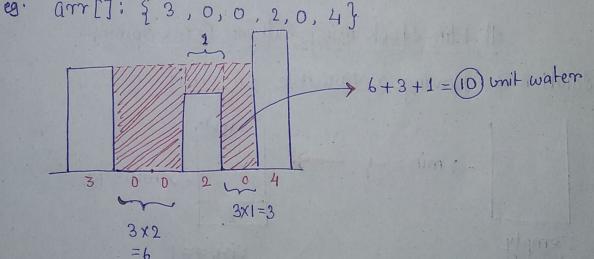
ne can simply achieve this storing pairs.





$$(2D) \longrightarrow (1D)$$





-> Solution :

we will calculate the water over each building and then calculate their sum.

for calculating each building.

## # Min Station Marke Extra Station -

Simply use two startes-1 one for operation (push, pop. top) -> s 2) Supporting stack -> to store min of the Stack -> SS

The top of SS will contain the equivalent min value

