```
a. the algorithm will find the minimum element in the array,
 STep
if array has only one element, return element
 Step2
 Find the minimum element of subarray.
 step 3
  Compare the minimum of array with
  the last element [n-1], It mini
   i) less than [n-1] return mini.
 otherwise, return [n-1
```

6. visited: h.c.d.b.g.f.a.e Pop: a,f,g,b,d,e,c.h Top sout: h. c.e.d.b.q.f.a

21140 5 560

70+140+560+2240=3010

N x M = 86 x 35 = 3010

nppen

48 45 40 35 30 25 20 15 10 5

a. I should take I coins and I should keep wins as above number

OPPen

b. No. I can't win It the opponent play the first player.

9. Suppose there are n cities in this state

Step1. Divide these cities into two subsets by X=C So half of these cities lie to the left and the right.

Step2. Find the closest pairs for the left and the right subsets, differ the left However, d = min(di, dz) might not be the shortest. d2 for the right.

the closer of points can lie on the opposite sides separting the line.

Step3. Check the boundary points

 $T(n) = 2T(\frac{n}{2}) + f(n)$