

Amazon:

Prelims: 20 mcq (mixture of quants, os, ds, c, c++, java (1 or 2 que))

2 coding...given an 2d array and dimension of matrix say 4 *4

1 1 0 1

0 1 0 1

1 1 0 1

1 1 0 1

you will be given a point in array say 2 2 if that position is one do nothing else make it as 9 and if adjacent element are also 0 make it as 9 and proceed like dis.

Sol (bfs)

Ans for that one

1 1 9 1

0 1 9 1

1 1 9 1

1 1 9 1

2) Given an array elements can be

Case 1) increasing first then decreasing

Case 2) decreasing first then increasing

Find maximum element in that array

First round:

Given an array of 0 and 1 where 0 represent sea and 1 represent land find number of islands present

e.g.

0 0 0 1

1 1 0 0

1 1 0 1

Ans: 3

Sol bfs (he asked me to optimize things like remove visit array, skip some iterations n things like that)

Adding two number represented using link list

Then he said that some numbers can be like 1->12->3-null and 32->2->4->null and he asked me to code for this.

Second round (bar raiser round)

He asked about me, what I like, why amazon, future goals, how I will convince people if they are wrong

Banana change to ban in place (remove duplicates in place)

Stack with getmax in o (1)

Then he asked me to find getmax in queue in o (1).

This que actually has no solution. Company asks some times que like this to see people don't panic in such situation.

One que in os... how 2 processes communicate. I said shared memory then he asked me how to synchronize shared memory. I don't know. Then we asked him what actually was the solution for which he said there's a concept of named mutex and explained about it. But he also said he didn't expect that sol what he actually expected was using file. Os internally provide synchronization for files.

3rd round

This round was for only 10 mins for me.

Question given a number of objects and weight of the object say a1, a2, a3, a4, a5 you need to find minimum number of moves to make that sorted

e.g. 10 2 3 17

Ans: 1