

Microsoft Interview | Set 11

- Difficulty Level : [Easy](#)
- Last Updated : 10 Jan, 2019

Company \xe2\x80\x93 STB team, Microsoft IDC.

Location \xe2\x80\x93 Hyderabad.

First interview

1. A quick introduction.
2. Few questions on multi-threading like \xe2\x80\x93
 - a. [What is race condition?](#)
 - b. [What is critical section?](#)
3. [Write a code to find out longest substring without any repetition of characters](#) with $O(n)$ complexity.

Ex. \r\nString - abcdefghaxyzpb\n\r\nOutput string - bcdefghaxyzp

4. [Two linked lists are merged at one point. Find the merging node.](#)

Second Interview

1. A quick introduction
2. Few project related questions mentioned in resume.
3. If you have huge log file, you need to print last \xe2\x80\x93 lines from the log file. Write a code for it assuming regular file read operations.
He was also expecting that the page hit is minimum.
I had provided a solution which would read the file one by one and then will store it in a \xe2\x80\x93 size circular linked list.
4. [If you have a \$m \times n\$ floor, find out a \$k \times k\$ size square tile which will take care of filling the complete floor without breaking of tile.](#)
Use GCD logic.

Third interview

1. A quick introduction and he also asked what was asked in previous interviews.
2. We have a $m \times n$ matrix, every element in row is in increasing order and every element in column is in increasing order. Find out a position of element k from the matrix with $O(m+n)$ complexity. Write a code for it.
3. [We have a \xe2\x80\x93 steps and a ball which take either 1 step at a time or 2 steps at a time. Find out the number of possible ways it covers exactly \xe2\x80\x93 steps.](#)

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