

Microsoft IDC Interview Experience | Set 37B

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Microsoft conducted their first round of shortlisting for placements and internship. The online coding round was organized by CoCubes like last year.

The test was for 1.5 hrs and had 2 coding questions. Allowed programming languages were C, C++ and Java.

The questions were as follows:

- 1) Given the head of two linked lists, find the merging point of both the linked lists. In case the linked lists do not merge then return NULL.
- 2) Given a 2d array of 0s and 1s where 0s represent water and 1s represent land. A connected patch of 0s count as one single water body and if a water body is covered by 1s all around it then it forms one pool. Write a function to return the total number of pools in the 2D matrix. In case a water body is present on the boundary of the array immediately return -1.

Sample test cases :-

```
\r\n\r\nInput : \r\n11111\r\n10101\r\n10111\r\n11111\r\n11111\r\nOutput : 2\r\n\r\nInput : \r\n11110\r\n11111\r\n11011\r\n11111\r\n11111\r\nOutput : 1
```

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