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Google Summer Trainee Engineering Program(STEP) Interview Experience

- Difficulty Level :\nMedium
- Last Updated :\n04 Jun, 2019

Telephonic Interview 1. (Telephonic + Google Docs Shared)

Q1. Given an array of integers, you need to find the local maxima.

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Example : [1 3 5 4 7 10 6]\r\n\r\nOutput: 5 or 10\r\n\r\nExplanation: Any of the local maxima can be the output. \r\nHe
```

Hint : Refer this article.

Q2. Given a sequence of brackets, how will you identify if its valid or not.

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Example : ({[][]})\r\n\r\nOutput: Valid\r\n\r\nExplanation: Every opening bracket has a closing bracket.\r\n\r\nExample
```

Hint : Refer this article.

Telephonic Interview 2. (Telephonic + Google Docs Shared)

Q1. There are 2 arrays. Smaller is of size m and has m elements in sorted order. The bigger array is
of size m+n, where there are only n elements in initial n positions in sorted order. So, last m
positions are empty in the bigger array. Insert smaller array\xe2\x80\x99s m elements in m + n array has all numbers in sorted order.

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Example : \r\nInput Array    N[]={5, 9, 15, 20,,,,,, }  n=4\r\n               M[]={1, 3, 6, 8, 19, 35}  m=6\r\nOutput a
```

Hint : Refer this article.

Q2. Given a binary tree with integer values, find the sub-path with the maximum value in it

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   \r\nExample : \r\n        1\r\n     / \xc2\xa0\xc2\xa0\\ \r\n    2 \xc2\xa0 \xc2\xa0\xc2\xa0 3\r\n  / \xc2\xa0 \\ \xc
```

Hint : Refer this article.

All Practice Problems for Google !

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