

## Practical No : 07

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Aim: Construction of OBST

Output :

Task 1 :

```
Minimum expected cost: 2.9000

=== Code Execution Successful ===
```

Task 2 :

<https://www.geeksforgeeks.org/problems/optimal-binary-search-tree2214/1>

The screenshot shows the GeeksforGeeks website interface for the 'Optimal Binary Search Tree' problem. The page is divided into several sections:

- Problem Statement:** The problem is titled 'Optimal Binary Search Tree' and is part of the '2214/1' series. It involves constructing an optimal binary search tree from a given set of keys and frequencies.
- Code Editor:** A Python3 code editor is visible, showing a class-based solution. The code defines a function `optimalSearchTree` that takes keys and frequencies as input and returns the minimum expected cost. The code uses dynamic programming to calculate the cost for different ranges of keys and frequencies.
- Submission Window:** The submission window shows the following results:
  - Problem Solved Successfully:** A green checkmark indicates the problem was solved.
  - Test Cases Passed:** 104 / 104.
  - Attempts:** 1 / 1.
  - Accuracy:** 100%.
  - Points Scored:** 8 / 8.
  - Time Taken:** 1.46.
- Solve Next:** A section with buttons for 'Fixing Two nodes of a BST', 'Strictly Increasing Array', and 'Word Wrap'.
- Stay Ahead With:** A section with a button for 'Build 21 Projects in 21 Days'.

