**PROBLEM**

This Code reads numbers from a text file in order to construct binary tree. Text file must have two lines.

* First line contains positive integers which are numbers of the tree nodes.
* Second line contains a target number.

We’re trying to find two best paths (left and right) which start from the root of the tree and sums up to this target value.

Important Notes:

* I used preorder traversal for searches and finding paths.
* There are two options that are recursion version and iterative version by using stack to solve the problem.
* To be able to create the binary tree, I used a dynamic array. I used this method:

In the text file, (2\*a)th integer is the right child of the ath node and (2\*a+1)th integer is the left child of the ath node.

* There can be two best paths: left and right, one best path: just left or right, or no best paths.

**Examples:**

First line of the file: 5 3 1 7 10 12 2

* Second line of the file:18

Result:

Path Found: 5 3 10

Path Found: 5 1 12

* Second line of the file:15

Result:

Path Found: 5 3 7

Path Found: No Path Found

* Second line of the file:6

Result:

Path Found: No Path Found

Path Found: 5 1

* Second line of the file:22

Result:

Path Found: No Path Found

Path Found: No Path Found