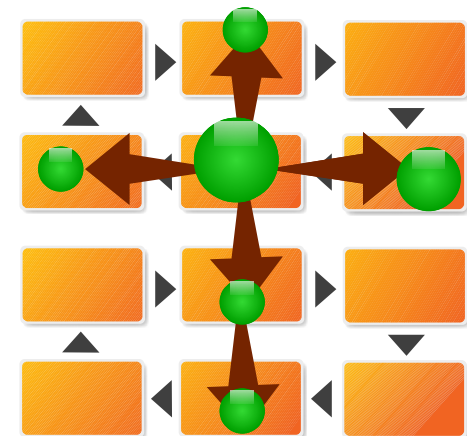


Terms Used

1. Net profit on cutting tree: Cut tree in all possible direction which will give different profit. Net profit on cutting tree is maximum profit obtained on cutting tree in particular direction.

2. $N \times N$ matrix is used to store all the necessary information in the code.



Approach

From current point go to the point which is nearest and net profit on cutting that tree is greater then $P * \text{sum of profit by all the tree}$.

P is some fraction. (Determined by trial)

Cut the tree and repeate the process.



Illustration with Example

Time = 10

K=17

$d[i] = x$ for all i from 1 to k

Assume average time to go from one tree to another is one.

Cutting tree takes on average t time for all trees together. Here assume t to be 2.

Consider algorithm don't go to any tree with profit less than 6.

$$96 * (1/16) = 6$$

Greedy Way

1, 2, 3, 4, 5, 6, 7, 8

Profit : 36

Slightly Optimised way Used in code

6, 7, 8, 9, 10, 11, 12, 13

Profit : 76