

Knock-out Tournament bracket manager



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OUR AGENDA

- ❑ Build a tournament tree from a list of player names.
- ❑ Record match results with validation and correct propagation.
- ❑ Answer structure queries(paths, potential meetings)
- ❑ Print all the bracket clearly after each round

Initialize the team and
determine the winner

```
1  vector<string> teams = {"Team A", "Team B", "Team C", "Team D",  
2                          "Team E", "Team F", "Team G", "Team H"}; // 8 teams  
3  
4  BTree tournament;  
5  tournament.buildBra(teams);  
6  
7  // Record results  
8  tournament.recRes(1, "Team A");  
9  tournament.recRes(2, "Team D");  
10 tournament.recRes(3, "Team F");  
11 tournament.recRes(4, "Team H");  
12 tournament.recRes(5, "Team A");  
13 tournament.recRes(6, "Team H");  
14 tournament.recRes(7, "Team H"); // determine the winner
```

=== Round 1 ===

Match 1: Team A vs Team B -> Winner: Team A

Match 2: Team C vs Team D -> Winner: Team D

Match 3: Team E vs Team F -> Winner: Team F

Match 4: Team G vs Team H -> Winner: Team H

=== Round 2 ===

Match 5: Team A vs Team D -> Winner: Team A

Match 6: Team F vs Team H -> Winner: Team H

=== Round 3 ===

Match 7: Team A vs Team H -> Winner: Team H

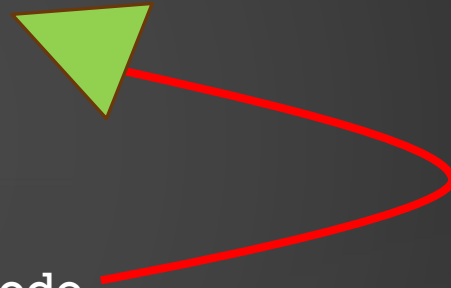
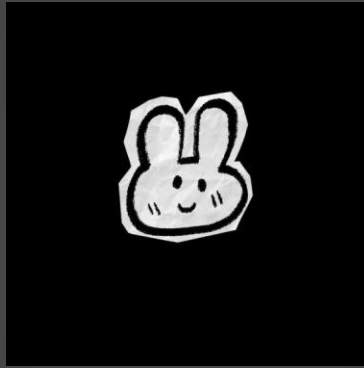
Overall Winner: Team H

Using the previous winner, we are matching it with the other previous winner.

There are 7 functions:

- findNode()
- findParent()
- proWinner()
- buildBra()
- Bool recRes()
- printBracketByRound()
- getRoot()

The end!



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