

## Selection Sunday

It's Selection Sunday! The field of 68 teams for the NCAA men's basketball tournament has been announced, and you're excited to fill out a bracket to submit to your friend's pool. In mRchmadness, we store the initial seeding announced by the selection committee as a length-64 character vector, giving the teams in order of their overall seed in the tournament.

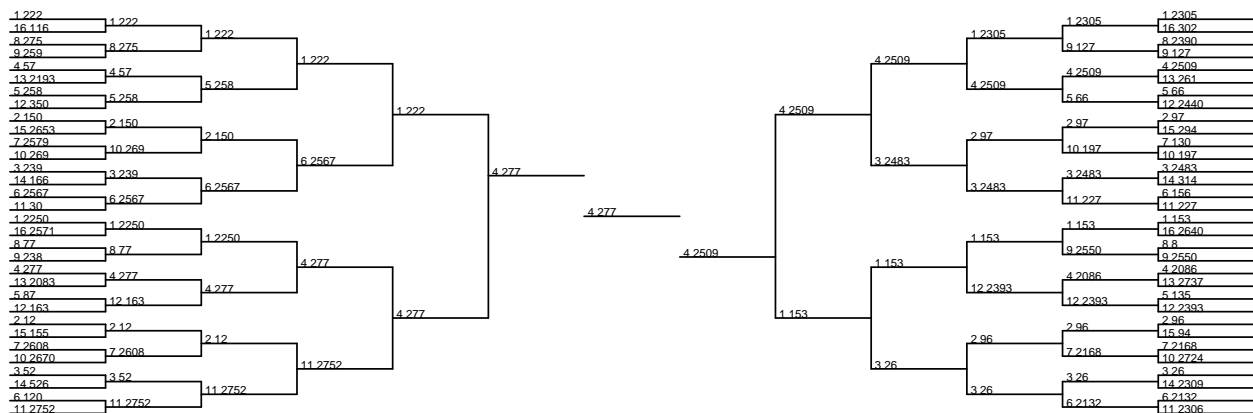
```
bracket = readRDS('../data/bracket2017.rds')
head(bracket)
#> [1] "222" "2305" "153" "2250" "12" "96"
```

We've already taken care of those pesky first-four games for you, so you have to imagine that we're working with a field of 64 teams. In fact, you can specify any field of 64 teams you could imagine! All you have to do is encode the teams as a length-64 character vector in order of overall seeding.

## Bradley-Terry

```
games = readRDS('../data/games2017.rds')
probability.matrix = bradley.terry(games)
```

```
outcome = simulate.bracket(bracket, probability.matrix)
plot.bracket(bracket, outcome)
```

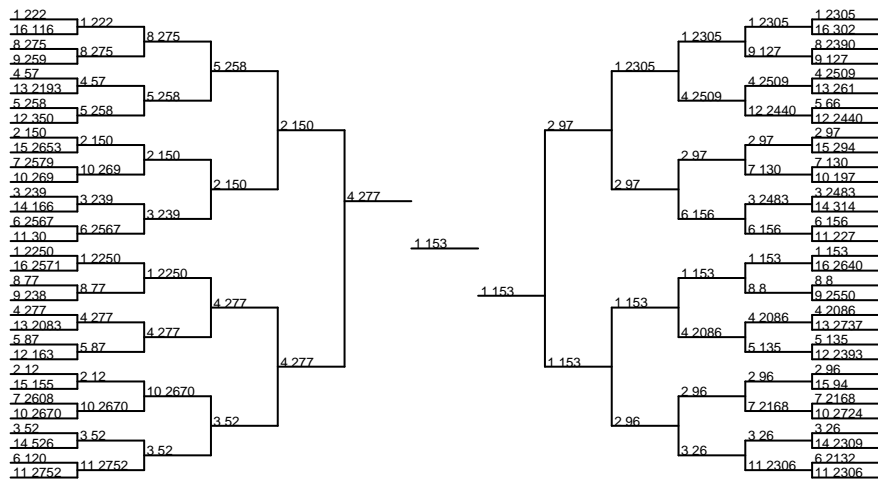


```
teams = readRDS('data/teams.rds')
```

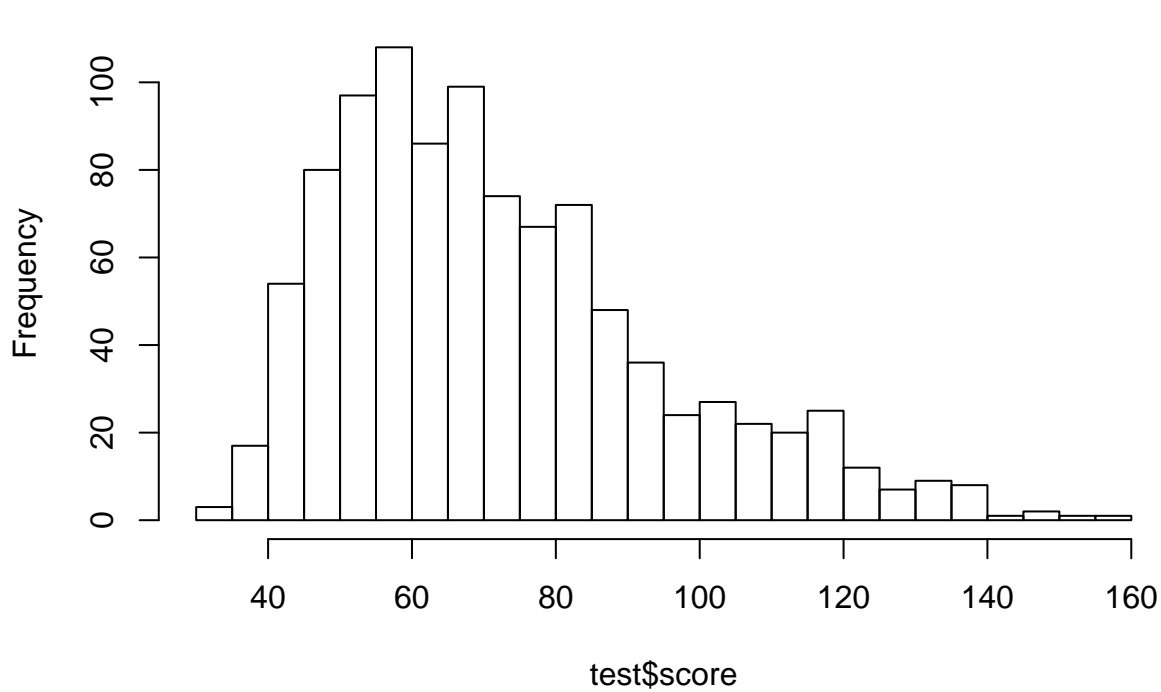
```
pop.picks2017 = scrape.population.distribution(2017)
```

```
picks = simulate.bracket(bracket.empty, probability.matrix, 30) outcome = simulate.bracket(bracket.empty, probability.matrix)
```

```
score.bracket(empty, picks, outcome)
```



Histogram of test\$score



#> [1] 0.051

