

Simulation and statistical tests function

INPUTS:

n - sample size,

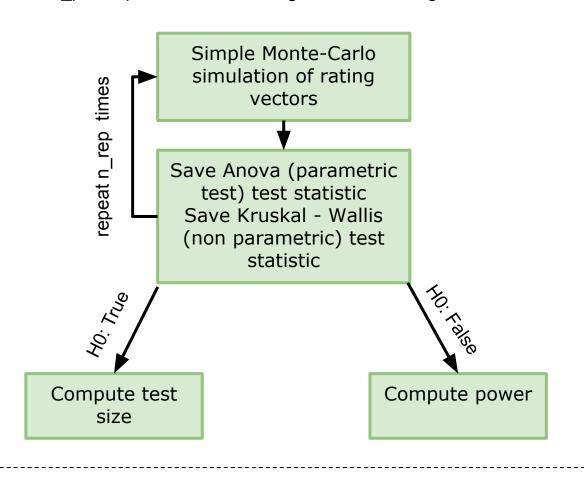
n_rep - times to compute power,

H0 - null hypothesis, whether TRUE or FALSE,

ad prob - probabilities of ratings for adventure genre,

co_prob - probabilities of ratings for comedy genre,

dr prob - probabilities of ratings for adventure genre.



Scenario 1 (H0 = FALSE): simulate data samples similar to the movielens data

Scenario 2 (H0 = FALSE): increase sample size to get 90% power

Scenario 3 (H0 = TRUE): change theoretical effect size to 0, desirable test size = 5%

Scenario 4 (H0 = FALSE): change theoretical effect size to very small, desirable power = 90%