hard_math

n = length of side of square board
t = number of treasures
m = number of monsters
p = number of heroes

$$\frac{(n^2-2n)!}{t!*m!*((n^2-2n)-t-m)!}*\frac{n!}{p!*(n-p)!}*\frac{n!}{1!*(n-1)!}$$

```
n = "length of side of square board" newline
t = "number of treasures" newline
m = "number of monsters" newline
p = "number of heroes" newline

newline newline
{{(n^2 - 2n)!} over { t! * m! * ((n^2 - 2n) - t - m)! }} *
{{n!} over { p! * (n - p)! }} * {{n!} over { 1! * (n - 1)!
}}
newline
```