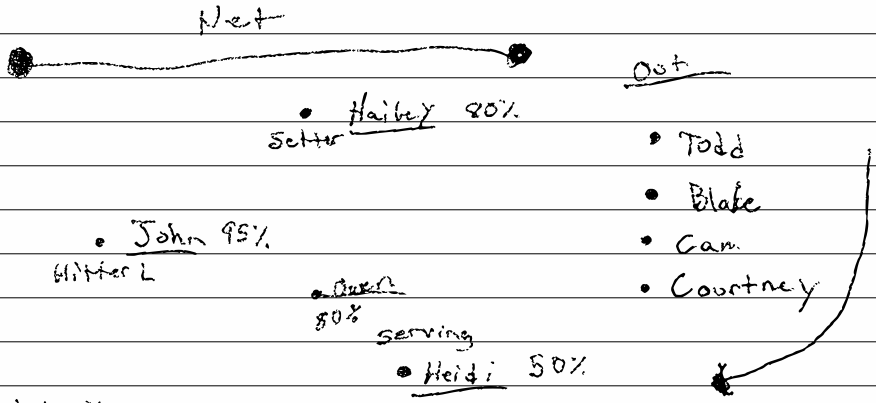
Ideal Setup for W's

Owen, Cam, Courtney, Hailey, Todd, John, Heidi, Blake
1 2 3 4 5 6 7 8



Total %.
76.625% Success

HHT III

Setters	Set %
John	90%
Cam	100%
Hailey	80%
Blake	75%
...	

Servers	Hit %
Hailey	85%
Courtney	90%
Heidi	50%
...	

Hitters hit %

John 95.
Cam 90
Owen 80%.
...

* estimated %s

Goal to maximize (%) for the entirety of the Game. (Weaknesses canceled out by others Strengths)

So to maximize the % of all spots we must spread talent

Starting 4

IDEAL LINEUP: Heidi, John, Hailey, Owen
Serving Hit Setter back

BENCH IN ORDER: Court, Cam, Blake, Todd
Next to Serve

Math

	Setters %	Servers %	Hitters %	Overall
0	John 90%	95%	95%	93
1	Sam 100%	95%	95%	96
2	Owen 70%	85%	90%	81
3	Blake 75%	70%	70%	71
4	Court 85%	90%	75%	83
5	Hailey 90%	95%	85%	90
6	Todd 95%	90%	90%	91
7	Heidi 70%	50%	60%	60

4 in - 4 out

8! Combinations
40,320

Add up all the overalls in groups of 4 and find greatest overall average in all rotations.

r1, r2, r3, r4, r5, r6, r7, r8.

$$\max\left(\sum_{i=1}^{i\leq 8} r_i - r_8\right)$$

Test 70 iterations of the max function and return greatest max

Code

1. Get all possible combinations of 8
2. iterate through each 4 → adding up the max overall sum overall in a dict → {Player_order : max_overall}
3. Find optimal player order.