



Lecture Homework 7

Your population of four candidate solutions to a problem has the fitnesses shown below.

You are using fitness proportional selection (roulette wheel selection) to decide which solutions will make it to the next generation.

You are also using elitism to preserve the single best candidate solution for the next generation.

What is the probability that each solution will be selected for the next generation after each spin of the roulette wheel?

Solution	Fitness	Probability
1	2.37	?
2	5.62	?
3	1.84	?
4	3.97	?
