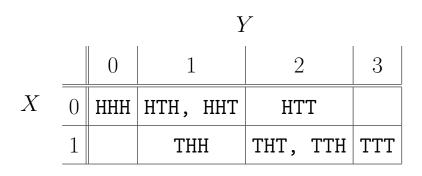
Flip a fair coin 3 times. Write

X = number of tails in the **first flip** Y = number of tails **total**



Suppose you receive **one dollar** for each tails, and an **extra dollar** if the first flip is tails – so your winnings are (X + Y) dollars.

- (a) What is $P(X + Y \le 1)$?
- (b) What is E(X+Y)?