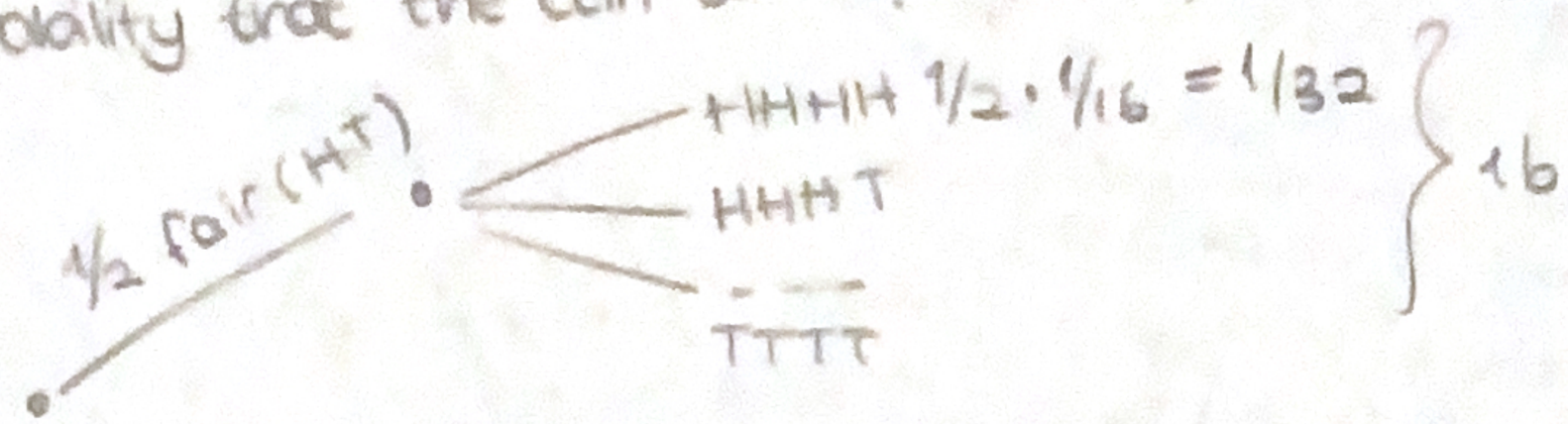
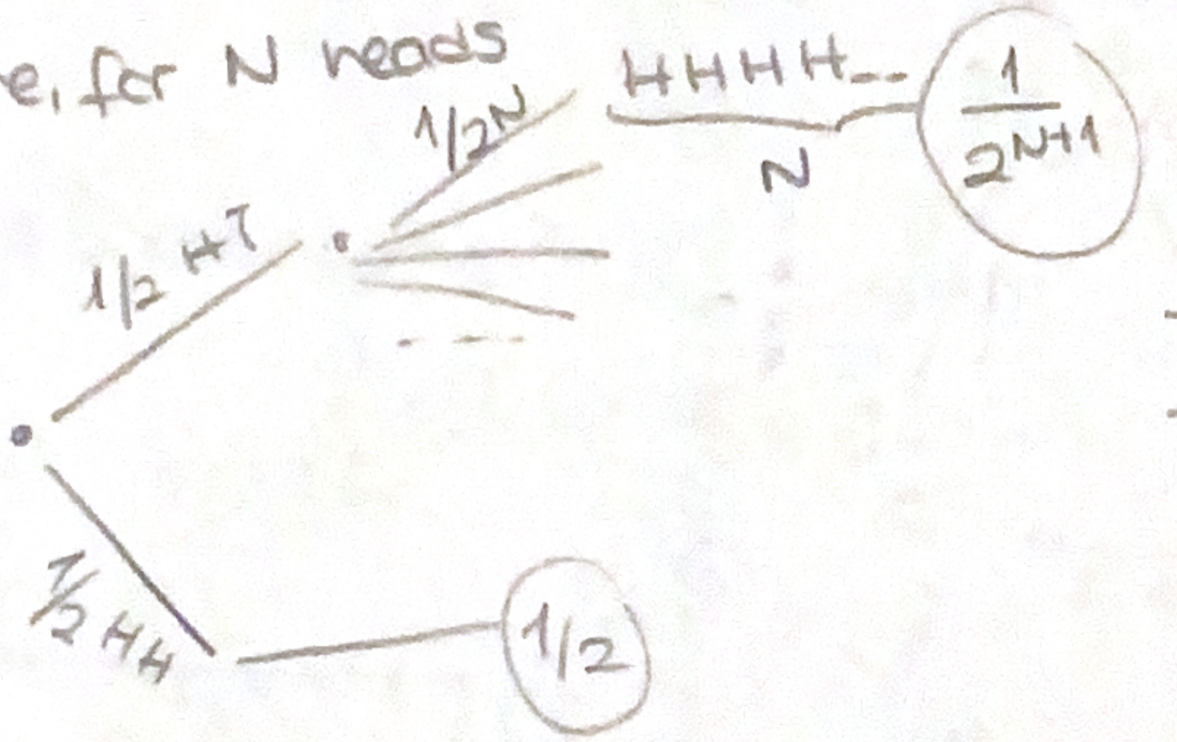
HW1

1) Two coins in pocket. One is fair, other heads on both sides.
Pick one, toss randomly, get HHHH.

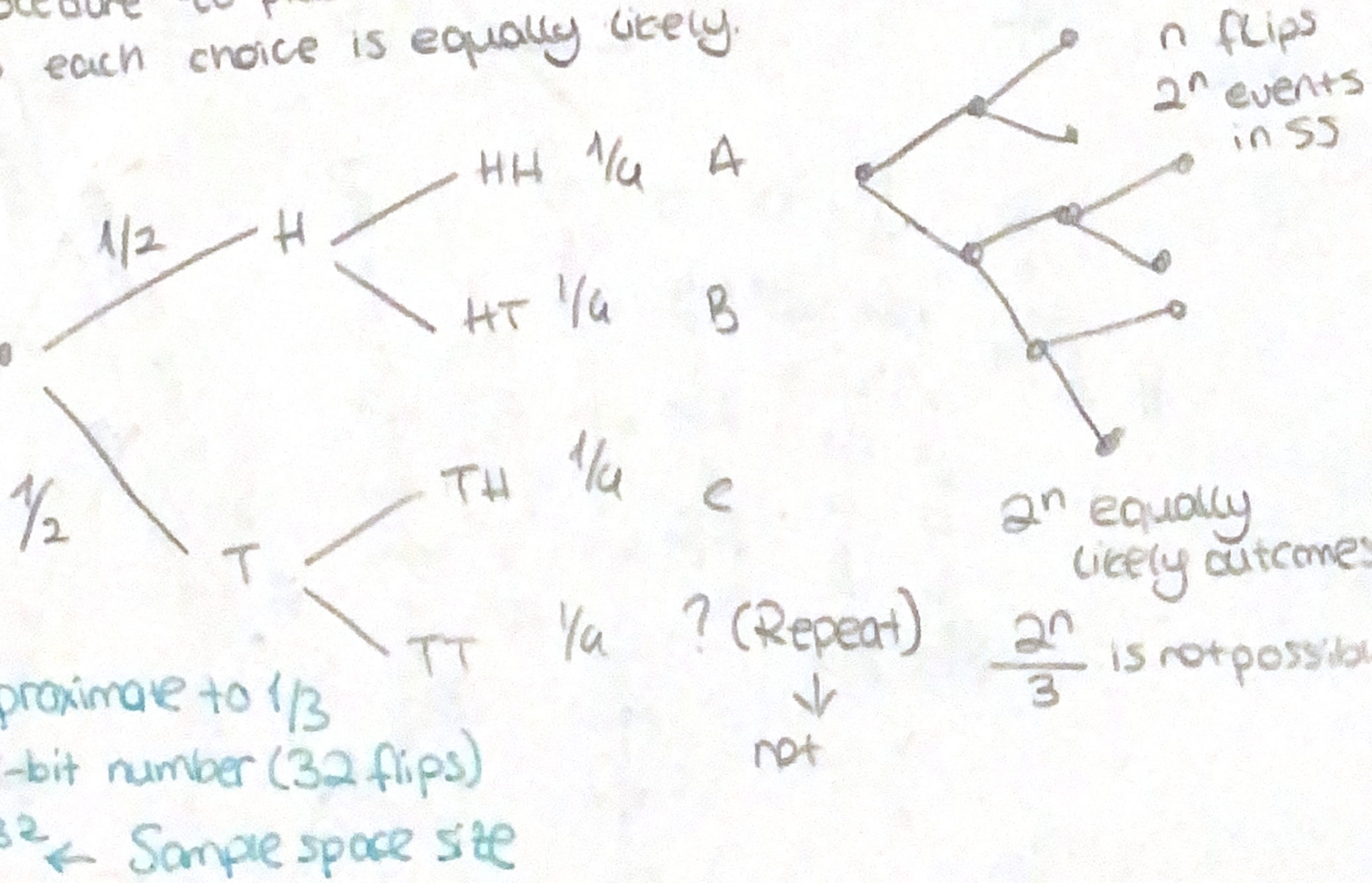
i) Probability that the coin was fair? P(fair)?



ii) Same, for N heads



2) Three Choices with a coin I have a fair coin. Make a procedure to pick one of three choices (A, B, C) so each choice is equally likely.



- Approximate to 1/3
32-bit number (32 flips)
2^{32} ← Sample space size