TDT4171 Azsignment EI) a) Number of atomic events: # cords in deck: 52 # cords dealt: 5 # alonic events: (52) = 2 598 960 () Probability of each atomic event: # favorable 1 # possible 2 598 960 c) # different kinds of straight Husley (E^2) $(e^2$ F $+\frac{1}{4^2}\cdot\frac{3}{4}\cdot2+\frac{1}{4}\cdot\frac{3}{4}\cdot1=\frac{61}{64}=0.953125$ Expected raybock vercentage: 95.3125%

(assuming): (assuming) I coin return is also a vien) P(win) = 1 - P(lose) $=1-\frac{3}{4}\cdot\left(1-\frac{1}{16}\right)=0.296875$ P(last two slots equals the first slot) (Also see python-file) c) Mean: 2 210 Median: 222 E3, 1, a) See python-file for function (r) Proportion: = 0.6585 Smalleyt N: = 23 [3,2,a) Group size: 2-2360