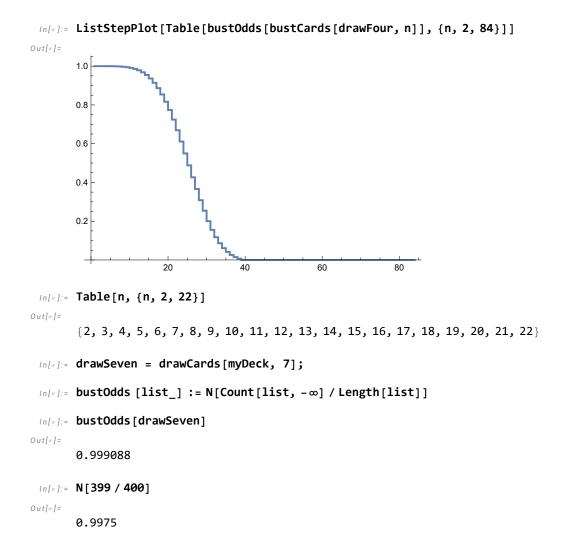
```
In[0]:= suit = {"A", 2, 3, 4, 5, 6, 7, 8, 9, 10, "J", "Q", "K"};
        myDeck = Join[suit, suit, suit, suit];
        myDeck = {\#} \& /@myDeck;
        myDeck = myDeck /. \{"J" \to 10, "Q" \to 10, "K" \to 10, \{"A"\} \to \{1, 11\}\};
 In[@]:= deck
Out[0]=
        \{\{1, 11\}, \{2\}, \{3\}, \{4\}, \{5\}, \{6\}, \{7\}, \{8\}, \{9\}, \{10\}, \{10\}, \{10\}, \{10\},
         \{1, 11\}, \{2\}, \{3\}, \{4\}, \{5\}, \{6\}, \{7\}, \{8\}, \{9\}, \{10\}, \{10\}, \{10\}\}\
 In[@]:= twoCards = Subsets[deck, {2}];
 In[*]:= twoCards[1]
Out[0]=
        \{\{1, 11\}, \{2\}\}
 In[@]:= enumeratedAces = Tuples /@ twoCards;
 In[@]:= enumeratedTotal = Total[#, {2}] & /@ enumeratedAces;
 In[*]:= under21 = Select[#, # ≤ 21 &] & /@ enumeratedTotal;
 In[*]:= finalScore = Max /@ under21;
 In[*]:= Length[finalScore]
Out[@]=
        325
 In[*]:= Count[finalScore, {}]
Out[0]=
 In[*]:= Histogram[finalScore]
Out[0]=
        30
        25
        20
        15
        10
```

```
in[*]:= drawCards[deck_, n_] := Total[#, {2}] & /@ (Tuples /@ Subsets[deck, {n}])
     bustCards[cards_, limit_] := Max /@ (Select[#, # ≤ limit &] & /@ cards)
     regFail [cards_, minNeeded_, limit_] :=
      Count[bustCards[cards, limit], x_ /; -1 < x < minNeeded] / Length[cards]</pre>
     regSuccess [cards_, minNeeded_, limit_] :=
      Count[bustCards[cards, limit], x_ /; minNeeded ≤ x < limit] / Length[cards]</pre>
     critFail [cards_, minNeeded_, limit_] :=
      Count[bustCards[cards, limit], x_ /; x < 0] / Length[cards]</pre>
     critSuccess[cards_, minNeeded_, limit_] :=
      Count[bustCards[cards, limit], limit] / Length[cards]
     successVector[cards_, minNeeded_, limit_] :=
      N[#, 3] & /@ \{minNeeded - 1, \}
         1 - ((minNeeded - 2) * 0.05),
         minNeeded,
         regSuccess[cards, minNeeded, limit] + critSuccess[cards, minNeeded, limit],
         regFail[cards, minNeeded, limit] + critFail[cards, minNeeded, limit],
         critSuccess[cards, minNeeded, limit],
         critFail[cards, minNeeded, limit],
         regSuccess[cards, minNeeded, limit],
        regFail[cards, minNeeded, limit]
        }
     bustOdds [list_] := N[Count[list, -∞] / Length[list], 3]
In[@]:= drawTwo = drawCards[myDeck, 2];
     drawThree = drawCards[myDeck, 3];
     drawFour = drawCards[myDeck, 4];
     drawFive = drawCards[myDeck, 5];
     drawSix = drawCards[myDeck, 6];
In[@]:= headings = {"Min. Roll", "Roll Success", "Min. Needed", "Tot. Success",
         "Tot. Fail", "Crit. Success", "Crit. Fail", "Reg. Success", "Reg. Fail"};
```

In[@]:= Grid[Prepend[Table[successVector[drawTwo, n, 21], {n, 2, 21}], headings], {Background → {None, {{White, Lighter[Blend[{Blue, Green}], 0.8]}}}, Dividers \rightarrow {{Gray, {LightGray}, Gray}}, Frame \rightarrow True, Spacings \rightarrow {2, {2, {0.7}, 2}}}]

Out[@]=

Min	Roll	Min	Tot	Tot	Cnit	Cnit	Dog	Dog
Min. Roll		Min.	Tot.	Tot.	Crit.	Crit.	Reg.	Reg.
KOII	Su :	Ne · ed ·	Su	Fail	Su	Fail	Su :	Fail
	cc: es:	ed :	cc\ es\		cc∖ es∖		cc\ es\	
	S .	Eu	S .		S S		S .	
1.00	1.	2.00	1.00	0	0.0483	0	0.952	0
2.00	0.95	3.00	1.00	0	0.0483	0	0.952	0
3.00	0.9	4.00	1.00	0	0.0483	0	0.952	0
4.00	0.85	5.00	0.995	0.004 · 52	0.0483	0	0.947	0.004 · 52
5.00	0.8	6.00	0.983	0.0166	0.0483	0	0.935	0.0166
6.00	0.75	7.00	0.967	0.0332	0.0483	0	0.919	0.0332
7.00	0.7	8.00	0.943	0.0573	0.0483	0	0.894	0.0573
8.00	0.65	9.00	0.914	0.0860	0.0483	0	0.866	0.0860
9.00	0.6	10.0	0.878	0.122	0.0483	0	0.830	0.122
10.0	0.55	11.0	0.837	0.163	0.0483	0	0.789	0.163
11.0	0.5	12.0	0.789	0.211	0.0483	0	0.741	0.211
12.0	0.45	13.0	0.695	0.305	0.0483	0	0.647	0.305
13.0	0.4	14.0	0.599	0.401	0.0483	0	0.551	0.401
14.0	0.35	15.0	0.510	0.490	0.0483	0	0.462	0.490
15.0	0.3	16.0	0.425	0.575	0.0483	0	0.377	0.575
16.0	0.25	17.0	0.348	0.652	0.0483	0	0.300	0.652
17.0	0.2	18.0	0.276	0.724	0.0483	0	0.228	0.724
18.0	0.15	19.0	0.211	0.789	0.0483	0	0.163	0.789
19.0	0.1	20.0	0.151	0.849	0.0483	0	0.103	0.849
20.0	0.05	21.0	0.0483	0.952	0.0483	0	0	0.952



Odds of busting on 21 with 7 drawn cards is 0.999088, or about 1/1000. For comparison, odds of NOT getting 20&20 with a disadvantaged roll is 0.9975.

What about when you start to hit?

If you score less than a 12 on your first two cards, you should automatically hit, as it is impossible to bust. This needs to be taken into account, as what we really want is an odds table for the game state where the player has some chance of failing.

The way I go about doing this is a little different. I want to draw every *permutation* of three cards from the deck. I will sum the first two to get my starting number, and use the third number to calculate the value after hitting. I had previously used Mathematica's "Subsets" function to draw my cards, but although that generates all possible sets, it does so assuming order does not matter. In this case, order does matter, because the set {A, 4, K} for example denotes hitting on a 15 and drawing a king, where as {A,K,4} denotes hitting on a 21 and drawing a 4. I don't need all 6 permutations - {A,4,K} is equivalent to {4,A,K}, but it is less work to unnecessarily include them and make use of existing func-

tions.

```
In[@]:= threeCards = MapIndexed[myDeck[##] &, Permutations[Range[52], {3}], {2}]
Out[0]=
```

```
\{\{1,11\},\{2\},\{3\}\},\{\{1,11\},\{2\},\{4\}\},\{\{1,11\},\{2\},\{5\}\},\{\{1,11\},\{2\},\{6\}\},\{\{1,11\},\{2\},\{7\}\},
                 \{\{1, 11\}, \{2\}, \{8\}\}, \{\{1, 11\}, \{2\}, \{9\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 
               \{\{1,11\},\{2\},\{10\}\},\{\{1,11\},\{2\},\{1,11\}\},\{\{1,11\},\{2\},\{2\}\},\{\{1,11\},\{2\},\{3\}\},
               \{\{1, 11\}, \{2\}, \{4\}\}, \{\{1, 11\}, \{2\}, \{5\}\}, \{\{1, 11\}, \{2\}, \{6\}\}, \{\{1, 11\}, \{2\}, \{7\}\}, \{\{1, 11\}, \{2\}, \{8\}\},
               \{\{1, 11\}, \{2\}, \{9\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11
               \{\{1,11\},\{2\},\{1,11\}\},\{\{1,11\},\{2\},\{2\}\},\{\{1,11\},\{2\},\{3\}\},\{\{1,11\},\{2\},\{4\}\},\{\{1,11\},\{2\},\{5\}\},
               \{\{1,11\},\{2\},\{6\}\},\{\{1,11\},\{2\},\{7\}\},\{\{1,11\},\{2\},\{8\}\},\dots 132537\dots,\{\{10\},\{10\},\{7\}\},
               \{\{10\}, \{10\}, \{8\}\}, \{\{10\}, \{10\}, \{9\}\}, \{\{10\}, \{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}
               \{\{10\}, \{10\}, \{5\}\}, \{\{10\}, \{10\}, \{6\}\}, \{\{10\}, \{10\}, \{7\}\}, \{\{10\}, \{10\}, \{8\}\}, \{\{10\}, \{10\}, \{9\}\}, \{\{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}, \{10\}
               \{\{10\}, \{10\}, \{7\}\}, \{\{10\}, \{10\}, \{8\}\}, \{\{10\}, \{10\}, \{9\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{10\}\}\}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (i)
Full expression not available (original memory size: 35.7 MB)
```

These next two lines are rather long and complicated. I have included an itemized breakdown at the end of this notebook. "finalTotal" denotes the final value after hitting once. "firstTwoTotal" is the total of the first two cards drawn - what is being hit on.

```
finalTotal = bustCards[Total[#, {2}] & /@ (Tuples /@ Transpose[
         \{ Total[\#, \{2\}] \& /@ (Tuples /@ threeCards[All, ;; 2]), threeCards[All, 3]] \} ]), 21]; \\
firstTwoTotal = bustCards[Total[#, {2}] & /@ (Tuples /@ threeCards[All, ;; 2]), 21];
```

bustOddsStartAtN: What is the likelihood of busting (going over 21) if you hit an initial hand with sums to "N"?

afterHitAvgValue: Assuming you don't bust, what average value will you be left with after hitting once?

```
bustOddsStartAtN[firstTotal_, finalTotal_, beforeHit_] :=
        bustOdds[Pick[finalTotal, Map[# == beforeHit &, firstTotal]]]
       afterHitAvgValue[firstTotal_, finalTotal_, beforeHit_] :=
        Ν[
         Mean[
          Select[
           Pick[finalTotal, Map[# == beforeHit &, firstTotal]], # > 0 &]
         ],3
 Integer[Commonest[Pick[finalTotal, Map[# == 7 &, firstTwoTotal]]]]]
Out[0]=
      Integer [ { 17 } ]
In[*]:= FromDigits[{17}]
Out[0]=
      17
```

```
In[@]:= Grid[
     Prepend[
      Transpose[
       {Range[4, 21],
       Table[bustOddsStartAtN[firstTwoTotal, finalTotal, n], {n, 4, 21}],
       Table[afterHitAvgValue[firstTwoTotal, finalTotal, n], {n, 4, 21}]}
      ], {"Start Tot.", "Odds of Bust", "Avg. Non-Bust Tot."}
     ],
     {Background → {None, {{White, Lighter[Blend[{Blue, Green}], 0.8]}}},
      1
```

Start Tot.	Odds of Bust	Avg. Non-Bust Tot.		
4	0	11.5		
5	0	12.5		
6	0	13.5		
7	0	14.5		
8	0	15.4		
9	0	16.4		
10	0	17.4		
11	0	17.6		
12	0.294	16.9		
13	0.338	17.2		
14	0.399	17.5		
15	0.460	17.8		
16	0.506	18.1		
17	0.567	18.4		
18	0.619	18.5		
19	0.672	18.4		
20	0.812	18.6		
21	0	17.6		

Some Strange Results

Out[0]=

```
In[@]:= Tally[Pick[threeCards[All, ;; 2], Map[# == 20 &, firstTwoTotal]]]
Out[0]=
        \{\{\{\{1, 11\}, \{9\}\}, 800\}, \{\{\{9\}, \{1, 11\}\}, 800\}, \{\{\{10\}, \{10\}\}, 12000\}\}\}
             12 000 * (50 - 4)
 In[@]:=
         (12000 + 800 + 800) * 50
Out[0]=
        69
        85
```

This is a very interesting result! If you have a total of 20, and you hit, you only have an 81% chance of busting. Online tables show 92% odds, which at a glance seems more reasonable. What gives? Well, if you have A/9 combo, you have 20 but will never bust on the next turn (There are 1600 permutations of this). If you have any 10/10 combo (12,000 permutations of this), you will bust if your next card isn't A. You drew two cards already, so 50 remain in the deck.

Consider the 10/10. What are your odds of busting? Well, 46/50! That is our 92% from the internet. And we already know you have 0% odds from A/9.

$$In[e] := \frac{1600}{12\,000 + 1600} * 0 + \frac{12\,000}{12\,000 + 1600} * 0.92$$

$$Out[e] = 0.811765$$

$$In[*]:= \mathbf{N}\left[\frac{2}{17}\right]$$

$$In[\circ]:= N\left[\frac{2}{17}\right]$$

In[
$$\bullet$$
]:= $N\left[\frac{2}{15}\right]$

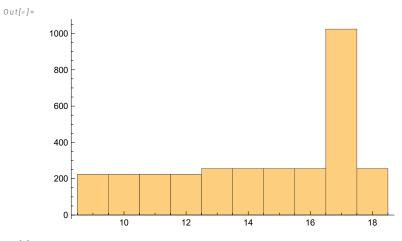
0.133333

Rule of thumb

After you hit, you have a roughly 1/3 chance of going up by 10. Otherwise, your odds are evenly distributed.

For example, below is a histogram of what results from hitting on a 7. You have 1024 ways to end up at 17, versus 3200 total outcomes. Further, the histogram shows that your other outcomes are roughly evenly distributed.

```
In[@]:= Histogram[
      Pick[finalTotal, Map[# == 7 &, firstTwoTotal]]]
     Length@Pick[finalTotal, Map[# == 7 &, firstTwoTotal]]
     N[1024 / 3200]
```

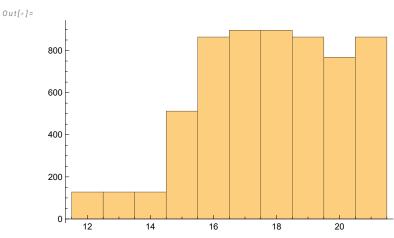


Out[0]= 3200

Out[0]= 0.32

> How to represent this for higher hitting at higher starting points can be a little ambiguous. For example, look at hitting on a 15, shown below. What I've done throughout this notebook is "wrap" all values greater than 21 down to -∞, which doesn't show up on the histogram. Indeed, the most common outcome is a bust, which will occur 46% of the time.

In[*]:= Histogram[Pick[finalTotal, Map[# == 15 &, firstTwoTotal]]]



Let's extend this analysis to all starting values. The function below tells me what fraction of the the final outcomes are equal to the most common outcome.

```
In[@]:= modeFrac[number_] :=
      N[
        (Count[#, FromDigits[Commonest[#]]] &@
           Pick[finalTotal, Map[# == number &, firstTwoTotal]]) /
         (Length[Pick[finalTotal, Map[# == number &, firstTwoTotal]]]),
       3
      ]
```

In the table below...

Start Tot.: The total of our first two cards.

Aft. Hit Mode: The most common value occurring after drawing an additional card.

Odds of Aft. Hit Mode: What fraction of the final outcomes "Aft. Hit Mode" represents.

Up until 12, the point at which we are no longer guaranteed to be safe if we hit, we can expect to go up in value by 10, and we can expect that to occur about 1/3 of the time. After this point, we can expect to bust at best about 1/3 of the time, which gets worse as we go up in value (barring some funny business with valuing Aces at 1 or 11).

```
In[*]:= Grid[
       Prepend[
        Transpose@{Range[4, 21],
          Table[Commonest[Pick[finalTotal, Map[# == n &, firstTwoTotal]]], {n, 4, 21}],
          Table[modeFrac[n], {n, 4, 21}]},
        {"Start Tot.", "Aft. Hit Mode", "Odds. of Aft. Hit Mode"}
       {Background → {None, {{White, Lighter[Blend[{Blue, Green}], 0.8]}}},
        Dividers \rightarrow {{Gray, {LightGray}, Gray}}, Frame \rightarrow True, Spacings \rightarrow {2, {2, {0.7}, 2}}}
      ]
```

Start Tot.	Aft. Hit Mode	Odds. of Aft. Hit Mode
4	{14 }	0.320
5	{15 }	0.320
6	{16}	0.320
7	{17 }	0.320
8	{18}	0.320
9	{19 }	0.320
10	{ 20 }	0.320
11	{21}	0.320
12	$\{-\infty\}$	0.294
13	{ −∞}	0.338
14	$\{-\infty\}$	0.399
15	{ −∞}	0.460
16	$\{-\infty\}$	0.506
17	{ −∞}	0.567
18	{ −∞}	0.619
19	$\{-\infty\}$	0.672
20	{ −∞}	0.812
21	{21}	0.300

It looks like we can expect about a 16, if we in

Out[0]=

```
In[@]:= {N[Length@# / Length@firstTwoTotal], N[Mean@#]} &@
        Pick[finalTotal, Map[4 ≤ # ≤ 11 &, firstTwoTotal]]
Out[@]=
       {0.211161, 15.9571}
```

So, what's the verdict here? Recall that our definition of success is "Get at least this number, but not over 21". We have about a 70% chance being at or above 12 on our first two cards, putting the players in the "danger zone" of possibly busting. The 30% of the time we aren't in the Danger Zone, expect the players to hit to about a 16. At this point, they will have a 50% chance of going bust on the next hit. If they don't bust, expect an 18.

This is already complicated, and unfortunately only get's worse... The longest possible hand you can have, and still be safe, is 8 cards long - {A, A, A, A, 2, 2, 2, 2} for a total of 12, just entering the Danger Zone. But your odds of busting noticeably higher than in the above table, 36% (44 cards remain, 12 of which have the value "10" which will bust you). So, you could continue through all these other hands, logging where they spit you out and compiling that into a final table with odds of 12-21 after perfect play.

```
In[*]:= 1 / Binomial[52, 8]
Out[0]=
                 1
          752 538 150
 In[*]:= N\left[\frac{1}{752538150}\right]
Out[@]=
          1.32884 \times 10^{-9}
```

Monte Carlo

So, rather than directly calculating all of this, let's do a monte carlo simulation.

Draw 8 cards at random, as 8 is the maximum number we can draw and just hit a value of 12.

```
In[*]:= draw = RandomChoice[myDeck, 8]
Out[0]=
        \{\{10\}, \{4\}, \{5\}, \{1, 11\}, \{10\}, \{9\}, \{9\}, \{5\}\}\}
```

Let's use a fun edge case instead. A player wouldn't hit a 21, but technically they could, and in this case that wouldn't bust them.

```
In[*]:= draw = \{\{1, 11\}, \{10\}, \{2\}, \{5\}\}\}
Out[0]=
         \{\{1, 11\}, \{10\}, \{2\}, \{5\}\}\
```

This is the pattern of numbers we will sum over. The first list assumes we count the Ace as a 1, and the second assumes we count it as an 11.

```
In[*]:= Tuples@draw
Out[0]=
        \{\{1, 10, 2, 5\}, \{11, 10, 2, 5\}\}
```

Calculate the cumulative sum - the result of drawing one more card.

```
In[@]:= Accumulate /@ Tuples@draw
Out[0]=
        \{\{1, 11, 13, 18\}, \{11, 21, 23, 28\}\}
```

We need to find the soonest possible location where we meet or surpass 12, as we have entered the

Danger Zone where we may start busting. The below function gives all locations of numbers between (inclusive) 12 and 21, in {list, location in list} ordered pairs (Mathematica starts counting at one).

```
In[\circ]:= Position[Accumulate /@ Tuples@draw, _? (12 \le \# \le 21 \&)]
Out[0]=
        \{\{1,3\},\{1,4\},\{2,2\}\}
```

Choose ordered pair with the lowest second value, which corresponds to the fewest number of cards needed to enter the *Danger Zone*.

```
In[@]:= MinimalBy[Position[Accumulate /@ Tuples@draw, _ ? (12 ≤ # ≤ 21 &)], Last]
Out[0]=
        { { 2, 2} }
```

Get the value where we have entered the Danger Zone. This is the final result of a single simulated run!

```
In[@]:= Extract[Accumulate /@ Tuples@draw,
        MinimalBy[Position[Accumulate /@ Tuples@draw, _? (12 ≤ # ≤ 21 &)], Last] [1]]
Out[@]=
       21
 In[@]:= monteFunc[draw_] := Extract[Accumulate /@ Tuples@draw,
```

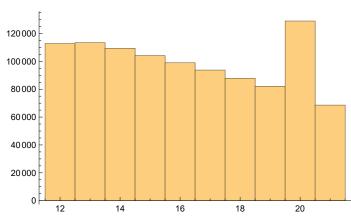
MinimalBy [Position [Accumulate /@ Tuples @ draw, $_{?}$ (12 \leq # \leq 21 &)], Last] [1]]

Here is how we would do a single run with a random draw of 8 cards.

```
In[@]:= monteFunc[RandomChoice[myDeck, 8]]
Out[0]=
       20
```

And here is how we generate our final data set.

```
in[*]:= monteData = Table[monteFunc[RandomChoice[myDeck, 8]], {n, 1, 1000000}];
 In[@]:= Histogram[monteData]
Out[0]=
```



```
In[*]:= 13010 / 100000
Out[0]=
         1301
        10000
 In[*]:= N \left[ \frac{1301}{10000} \right]
Out[@]=
        0.1301
 In[*]:= fracMatch[value_] := N[Count[monteData, _?(# ≥ value &)] / Length[monteData], 3]
 In[@]:= Grid[
         Prepend[
          Transpose@{Range[12, 21],
             Table[fracMatch[n], {n, 12, 21}]},
          {"Get at least", "Odds"}
         ],
         {Background → {None, {{White, Lighter[Blend[{Blue, Green}], 0.8]}}},
          Dividers \rightarrow {{Gray, {LightGray}, Gray}}, Frame \rightarrow True, Spacings \rightarrow {2, {2, {0.7}, 2}}}
        ]
```

Get at least	Odds		
12	1.00		
13	0.887		
14	0.774		
15	0.664		
16	0.560		
17	0.461		
18	0.368		
19	0.280		
20	0.198		
21	0.0686		

And there we have it! Our (approximate) riskless play. 100% chance of getting at least a 12, about a 50% chance of getting at least a 16 or 17, and a 7% chance of getting a perfect 21. Odds of blackjack, about 5%.

If a DM asks for a 16, you have a 56% chance of getting it right off the bat. But the other 44% of the time, you're gonna have to hit at least once, busting you about 50% of the time after that first hit.

So... Where does that leave us? I'd use this above-table to (without telling the players), set baseline assuming perfectly safe play. This is basically your dice roll. On a soft failure (not busting), they don't get what they want, but it isn't awful. If they do push their luck, hit, and bust, something pretty bad

happens.

```
Out[0]=
           18, 15, 19, 13, 12, 18, 13, 18, 13, 12, 15, 16, 17, 16, 12, 17, 20, 15, 20, 13, 20, 20, 20, 16, 17, 16, 13, 19,
           12, 18, 18, 18, 13, 15, 21, 14, 20, 14, 12, 21, 14, 13, 20, 18, 12, 12, 16, 20, 17, 16, 18, 14, 13, 17, 14, 13,
           18, 17, 20, 18, 13, 15, 17, 16, 13, 12, 13, 17, 18, 14, 13, 15, 20, 12, 14, 14, 15, 18, 15, 18, 12, 13, 12, 21,
           12, 17, 13, 14, 13, 16, 16, 16, 15, 13, 20, 21, 12, 15, 12, 15, 13, 18, 14, 15, 15, 18, 16, 16, 21, 17, 20, 20,
           20, 18, 20, 13, 20, 14, 18, 17, 12, 18, 15, 13, 12, 14, 21, 14, 13, 19, 14, 14, 20, 21, 21, 21, 13, 20, 13, 13,
           14, 16, 13, 16, 17, 16, 17, 20, 13, 16, 14, ... 99642..., 13, 15, 19, 15, 16, 19, 21, 12, 12, 13, 16, 14, 12,
           13, 16, 16, 18, 13, 13, 19, 14, 14, 16, 15, 17, 16, 12, 17, 21, 13, 18, 14, 16, 15, 12, 21, 19, 19, 19, 19, 17,
           20, 17, 12, 15, 15, 18, 20, 20, 14, 20, 21, 17, 14, 16, 19, 15, 17, 13, 16, 20, 18, 20, 20, 14, 20, 18, 18, 18,
           20, 20, 15, 14, 13, 17, 12, 14, 15, 20, 16, 17, 14, 14, 14, 20, 16, 20, 20, 12, 18, 15, 12, 14, 13, 14, 15, 20,
           20, 15, 15, 18, 16, 16, 20, 13, 17, 13, 19, 14, 19, 21, 17, 12, 12, 14, 15, 14, 12, 15, 17, 17, 19, 18, 20, 15,
           20, 20, 18, 18, 21, 17, 17, 18, 17, 13, 19, 13, 17, 12, 20, 20, 16, 19, 18, 19, 13, 20, 15, 21, 14, 15, 15,
           14, 15, 15, 16, 16, 13, 16, 17, 12, 14, 15, 12, 13, 14, 12, 12, 15, 15, 18, 16, 21, 19, 14, 14, 21, 12, 16
                                                                                                                          (i)
          Full expression not available (original memory size: 2.4 MB)
 In[@]:= Flatten[Accumulate /@ Tuples@draw]
Out[0]=
         {3, 6, 7, 17, 27, 37, 47, 51, 3, 6, 17, 27, 37, 47, 57, 61}
 In[\bullet]:= Position[Accumulate /@ Tuples@draw, _ ? (12 \le \# \le 21 \&)]
Out[0]=
         \{\{1,3\},\{1,4\},\{2,2\}\}
 In[*]:= First@MinimalBy[Position[Accumulate /@Tuples@draw, _? (12 ≤ # ≤ 21 &)], Last]
Out[0]=
         {2, 2}
 In[@]:= Extract[Accumulate /@ Tuples@draw,
          MinimalBy [Position [Accumulate / @ Tuples @ draw, _{?} (12 \le \# \le 21 \&) ], Last] [[1]]]
Out[@]=
         21
 In[@]:= (Accumulate /@ Tuples@draw) [[2, 2]
Out[0]=
         21
 In[*]:= {{2, 2}}[0]
Out[0]=
        List
```

```
In[*]:= Subsets[myDeck, {3}]
Out[0]=
                                                                                                         \{\{1,11\},\{2\},\{3\}\},\{\{1,11\},\{2\},\{4\}\},\{\{1,11\},\{2\},\{5\}\},\{\{1,11\},\{2\},\{6\}\},\{\{1,11\},\{2\},\{7\}\},
                                                                                                              \{\{1, 11\}, \{2\}, \{8\}\}, \{\{1, 11\}, \{2\}, \{9\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{1, 11\}, \{2\}, \{10\}\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 
                                                                                                            \{\{1, 11\}, \{2\}, \{10\}\}, \{\{1, 11\}, \{2\}, \{1, 11\}\}, \{\{1, 11\}, \{2\}, \{2\}\}, \{\{1, 11\}, \{2\}, \{3\}\}, \{\{1, 11\}, \{2\}, \{4\}\},
                                                                                                            \{\{1, 11\}, \{2\}, \{5\}\}, \{\{1, 11\}, \{2\}, \{6\}\}, \{\{1, 11\}, \{2\}, \{7\}\}, \{\{1, 11\}, \{2\}, \{8\}\}, \{\{1, 11\}, \{2\}, \{9\}\}, \{1, 11\}, \{2\}, \{9\}\}, \{1, 11\}, \{2\}, \{9\}\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, \{1, 11\}, 
                                                                                                              \{\{1,11\},\{2\},\{10\}\},\{\{1,11\},\{2\},\{10\}\},\{\{1,11\},\{2\},\{10\}\},\{\{1,11\},\{2\},\{10\}\},\{\{1,11\},\{2\},\{1,11\}\},
                                                                                                              \{\{1,11\},\{2\},\{2\}\},\{\{1,11\},\{2\},\{3\}\},\{\{1,11\},\{2\},\{4\}\},\{\{1,11\},\{2\},\{5\}\},\{\{1,11\},\{2\},\{6\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{1,11\},\{2\},\{4\}\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\}
                                                                                                              \{\{1,11\},\{2\},\{7\}\},\{\{1,11\},\{2\},\{8\}\},\dots 22037\dots,\{\{7\},\{8\},\{10\}\},\{\{7\},\{9\},\{10\}\},\{\{7\},\{9\},\{10\}\},\{10\}\},\{10\}\},\{10\}\}
                                                                                                              \{\{7\}, \{9\}, \{10\}\}, \{\{7\}, \{9\}, \{10\}\}, \{\{7\}, \{10\}\}, \{\{7\}, \{10\}\}, \{\{7\}, \{10\}\}, \{\{7\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10
                                                                                                              \{\{7\}, \{10\}, \{10\}\}, \{\{7\}, \{10\}\}, \{\{8\}, \{9\}, \{10\}\}, \{\{8\}, \{9\}, \{10\}\}, \{\{8\}, \{9\}, \{10\}\}, \{\{8\}, \{9\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}
                                                                                                              \{\{8\},\{10\},\{10\}\},\{\{8\},\{10\}\},\{10\}\},\{\{8\},\{10\}\},\{10\}\},\{\{8\},\{10\}\},\{10\}\},\{\{8\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{10\}\},\{1
                                                                                                              \{\{9\}, \{10\}, \{10\}\}, \{\{9\}, \{10\}\}, \{\{9\}, \{10\}\}, \{\{9\}, \{10\}\}, \{\{9\}, \{10\}\}, \{\{9\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, \{10\}\}, 
                                                                                                              \{\{9\}, \{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}\}, \{10\}\}, \{\{10\}\}, \{10\}\}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         £
                                                                                             Full expression not available (original memory size: 6 MB)
               In[@]:= Accumulate[%139]
                                                                                    Accumulate: Objects of unequal length in {{2}, {7}, {8}, {1, 11}, {5}, {9}, {4}, {1, 11}} cannot be added.
 Out[0]=
                                                                               Accumulate [\{\{2\}, \{7\}, \{8\}, \{1, 11\}, \{5\}, \{9\}, \{4\}, \{1, 11\}\}]
               In[*]:= Tuples /@%
                                                                                  ••• Tuples: Nonatomic expression expected at position {1, 1} in Tuples[{2}].
                                                                                  ••• Tuples: Nonatomic expression expected at position {1, 1} in Tuples[{7}].
                                                                                    ···· Tuples: Nonatomic expression expected at position {1, 1} in Tuples[{8}]. 🕡
                                                                                    ··· General: Further output of Tuples::normal will be suppressed during this calculation. 🕡
Out[0]=
                                                                                    {Tuples[{2}], Tuples[{7}], Tuples[{8}], Tuples[{1, 11}],
                                                                                             Tuples[{5}], Tuples[{9}], Tuples[{4}], Tuples[{1, 11}]}
            In[ • ]:=
                                                                           16 / 44
Out[0]=
Out[0]=
                                                                               0.363636
```

Length@final

Some of that got a little complicated, so I copy the parts where I go step-by-step here

In[@]:= threeCards[All, ;; 2]

Out[0]=

```
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Full expression not available (original memory size: 25.9 MB)
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In[@]:= Total[#, {2}] & /@ (Tuples /@ threeCards[All, ;; 2])

Full expression not available (original memory size: 39.5 MB)

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In[@]:= Transpose[{Total[#, {2}] & /@ (Tuples /@ threeCards [All, ;; 2]), threeCards [All, 3]]}] Out[0]=

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     \{\{20\}, \{4\}\}, \{\{20\}, \{5\}\}, \{\{20\}, \{6\}\}, \{\{20\}, \{7\}\}\}, \{\{20\}, \{8\}\}, \{\{20\}, \{9\}\}\}, \{\{20\}, \{10\}\}\}
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In[*]:= Tuples /@
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Transpose[{Total[#, {2}] & /@ (Tuples /@ threeCards[All, ;; 2]), threeCards[All, 3]]}]

Out[0]=

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         \{\{20,3\}\}, \{\{20,4\}\}, \{\{20,5\}\}, \{\{20,6\}\}, \{\{20,7\}\}, \{\{20,8\}\}, \{\{20,9\}\}, \{\{20,10\}\}, \{\{20,10\}\}\}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 £03
Full expression not available (original memory size: 24.4 MB)
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In[@]:= Total[#, {2}] & /@ (Tuples /@

Transpose[{Total[#, {2}] & /@ (Tuples /@ threeCards[All, ;; 2]), threeCards[All, 3]]}])

Out[0]=

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                                     \{29\}, \{30\}, \{30\}, \{30\}, \{30\}, \{21, 31\}, \{22\}, \{23\}, \{24\}, \{25\}, \{26\}, \{27\}, \{28\}, \{29\}, \{30\}, \{30\}\}
Full expression not available (original memory size: 23.3 MB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                {0}
```

How many Ace & 9 Combinations?

```
Binomial[13, 1] * Binomial[12, 1] * Binomial[4, 1] * Binomial[4, 1]
Out[0]=
       2496
```

How many 10 & 10 combinations?

Binomial[13, 4] Binomial[]

```
In[*]:= Binomial[13, 1]
```

Out[0]=

13

```
In[*]:= Binomial[4, 4]
Out[0]=
         1
 In[ • ]:= 13 * 13
Out[0]=
         169
 In[@]:= N[Mean[thirdAtN]]
Out[0]=
 In[\circ]:= \mathbf{N}\left[\frac{25}{2}\right]
Out[•]=
         12.5
 In[@]:= N[Count[thirdAtN, x_ /; x < 0] / Length[thirdAtN]]</pre>
Out[0]=
         0.811765
 In[\bullet] := \mathbf{N} \left[ \frac{27}{80} \right]
Out[0]=
         0.3375
 In[ ]:= N[ 228 ]
Out[0]=
         0.294194
 In[*]:= critFail[thirdAtN, 0, 21]
          ... Select: Nonatomic expression expected at position 1 in Select[14, #1 ≤ 21 &]. 0
          ... Select: Nonatomic expression expected at position 1 in Select[15, #1 ≤ 21 &]. 0
          ... Select: Nonatomic expression expected at position 1 in Select[16, #1 ≤ 21 &]. 

1
          ••• General: Further output of Select::normal will be suppressed during this calculation.
Out[0]=
          228
          775
         Length[Pick[finalTotal, Map[# == 12 &, firstTwoTotal]]]
Out[0]=
         12400
 In[*]:= Tuples[{{"A"}, {1, 2}}]
Out[0]=
         \{\{A, 1\}, \{A, 2\}\}
```

```
Join[Subsets[myDeck, {1}]
```

```
Out[0]=
                                                                                                                     \{\{\{1, 11\}\}, \{\{2\}\}, \{\{3\}\}, \{\{4\}\}, \{\{5\}\}, \{\{6\}\}, \{\{7\}\}, \{\{8\}\}, \{\{9\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, 
                                                                                                                                    \{\{10\}\}, \{\{10\}\}, \{\{1, 11\}\}, \{\{2\}\}, \{\{3\}\}, \{\{4\}\}, \{\{5\}\}, \{\{6\}\}, \{\{7\}\}, \{\{8\}\},
                                                                                                                                    \{\{9\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{1, 11\}\}, \{\{2\}\}, \{\{3\}\}, \{\{4\}\}, \{\{5\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}
                                                                                                                                    \{\{6\}\}, \{\{7\}\}, \{\{8\}\}, \{\{9\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}, \{\{1, 11\}\}, \{\{2\}\}, \{1, 11\}\}, \{1, 11\}\}
                                                                                                                                    \{\{3\}\}, \{\{4\}\}, \{\{5\}\}, \{\{6\}\}, \{\{7\}\}, \{\{8\}\}, \{\{9\}\}, \{\{10\}\}, \{\{10\}\}, \{\{10\}\}\}
```

In[*]:= Length[drawFive]

Out[0]=

2598960

In[*]:= Count[drawFive, -∞]

Out[0]=

2458988

Subsets

In[@]:= Histogram[drawCards[myDeck, 4]]

Out[0]= 12000 10000 8000 6000 4000 2000 0 10 14

In[*]:= DeleteElements[myDeck, 1 \rightarrow {{1, 11}}, {1, 11}}]

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Out[0]=
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                                                                                                Tuples [\{\{1,11\},\{1,11\}\},\{\{1,11\},\{2\}\},\{\{1,11\},\{3\}\},\{\{1,11\},\{4\}\},\{\{1,11\},\{5\}\},\{\{1,11\},\{6\}\},\{1,11\},\{6\}\},\{1,11\},\{6\}\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11],\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\},\{1,11\}
                                                                                                                      \{\{1,11\},\{7\}\},\{\{1,11\},\{8\}\},\{\{1,11\},\{9\}\},\{\{1,11\},\{10\}\},\{\{1,11\},\{10\}\},\{\{1,11\},\{10\}\},
                                                                                                                      \{\{1, 11\}, \{10\}\}, \dots 2678 \dots, \{\{10\}, \{1, 11\}\}, \{\{10\}, \{2\}\}, \{\{10\}, \{3\}\}, \{\{10\}, \{4\}\}, \{\{10\}, \{5\}\}\}
                                                                                                                      \{\{10\}, \{6\}\}, \{\{10\}, \{7\}\}, \{\{10\}, \{8\}\}, \{\{10\}, \{9\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10\}, \{10\}\}, \{\{10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               £
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            In[@]:= Total[{{1, 11}, {1, 11}, 10}]
Out[0]=
                                                                                  {12, 32}
            In[*]:= Tuples[{{1, 11}, {10}}]
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                                                                                \{\{1, 10\}, \{11, 10\}\}
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