

# 1 Probabilities

## 1.1 Experimental Probability of Democratic Candidate Winning the Electoral Vote Given the Individual Probability of the Candidate Winning Each State is the 2020 Popular Vote Percentage

```
v := [81282896, 74222484];  
p := v[1]/(v[1]+v[2]);  
WinProb(USEC(), p, 1000);
```

0.5840000000

## 1.2 Calculated Probability of Democratic Candidate Winning the Electoral Vote Given the Individual Probability of the Candidate Winning Each State is the 2020 Popular Vote Percentage

```
v := [81282896, 74222484]:  
p := v[1]/(v[1]+v[2]):  
f:=evalf(GFvp(USEC(), p, x)):  
evalf(add(coeff(f, x, i), i=270..degree(f, x)));
```

0.5896628367

## 1.3 Experimental Probability of Democratic Candidate Winning the Electoral Vote Using (Recent) Historical Data

```
WinProbInformed(USEC2(), 1000);
```

0.5560000000

## 1.4 Calculated Probability of Democratic Candidate Winning the Electoral Vote Using (Recent) Historical Data

```
f:=evalf(GFvp2(USEC2(), x)):  
evalf(add(coeff(f, x, i), i=270..degree(f, x)));
```

0.5613012890

## 2 Averages

### 2.1 Experimental Average Number of Electoral Votes for Democratic Candidate Using Only 2020 Popular Vote as Individual Probability of the Candidate Winning Each State

```
v := [81282896, 74222484];  
p:=v[1]/(v[1]+v[2]);  
s1:=SimuCount(USEC(),p,1000,4);
```

[281.4120000, 49.75313314, -0.03161792474, 2.712346039], 0.1530000000

### 2.2 Experimental Average Number of Electoral Votes for Democratic Candidate Using (Recent) Historical Data

```
s2:=SimuCountInformed(USEC2(),1000,4);
```

[274.4650000, 25.34736229, 0.06630275564, 2.907743535], 0.08900000000

### 2.3 Calculated Expected Average Number of Electoral Votes for Democratic Candidate Using Only 2020 Popular Vote Individual Probability of the Candidate Winning Each State

```
v := [81282896, 74222484]:  
p:=v[1]/(v[1]+v[2]):  
s1:=evalf(StatAnal(GFvp(USEC(),p,x),x,10)):  
s1[1];
```

281.2134091

### 2.4 Calculated Expected Average Number of Electoral Votes for Democratic Candidate Using (Recent) Historical Data

```
s2:=evalf(StatAnal(GFvp2(USEC2(),x),x,10)):  
s2[1];
```

274.2380952

## 3 (Finite) Sequences

### 3.1 Sequence for the Number of Ways One of the Candidates can get Exactly $i$ Electoral Votes

```
f:=(GFv(USEC(),x)):  
seq(coeff(f,x,i),i=1..degree(f,x));
```

0, 0, 8, 5, 3, 34, 43, 36, 122, 201, 217, 427, 730, 920, 1434, 2330, 3162,

4508, 6821, 9479, 13080, 18682, 25832, 35065, 48207, 65508, 87739, 117572, 156685, 206935, 272173, 356345, 463822, 600849, 774662, 994337, 1270768, 1616541, 2048369, 2585598, 3249925, 4069867, 5079078, 6314467, 7823149, 9661071, 11890042, 14586067, 17839141, 21749899, 26438475, 32046021, 38731301, 46681006, 56111173, 67265736, 80428483, 95923935, 114117746, 135431808, 160344810, 189392667, 223189856, 262428980, 307880930, 360421915, 421035657, 490811551, 570975786, 662899405, 768094894, 888249964, 1025240398, 1181130618, 1358206138, 1558990312, 1786252409, 2043040165, 2332695429, 2658870568, 3025567470, 3437146528, 3898350489, 4414352627, 4990760988, 5633643424, 6349587741, 7145704429, 8029647723, 9009686538, 10094708495, 11294238537, 12618513241, 14078488658, 15685857870, 17453125685, 19393617918, 21521499793, 23851849790, 26400664613, 29184882177, 32222453648, 35532339797, 39134535973, 43050144947, 47301362511, 51911499571, 56905057539, 62307700923, 68146273105, 74448872844, 81244816938, 88564644621, 96440188453, 104904532333, 113992004741, 123738237027, 134180113015, 145355758292, 157304580196, 170067202350, 183685457590, 198202408042, 213662255583, 230110337445, 247593139583, 266158172954, 285853963718, 306730068064, 328836918688, 352225800892, 376948865953, 403058961273, 430609581706, 459654879646, 490249486728, 522448446323, 556307206020, 591881433527, 629226945869, 668399676139, 709455482123, 752450074576, 797438967890, 844477271443, 893619626284, 944920144061, 998432176367, 1054208260428, 1112300053668, 1172758090898, 1235631725736, 1300969070333, 1368816743171, 1439219811592, 1512221733293, 1587864104004, 1666186601756, 1747226922544, 1831020544692, 1917600677723, 2006998189890, 2099241380376, 2194355954575, 2292364942448, 2393288472556, 2497143781269, 2603945128309, 2713703569031, 2826426993933, 2942120066210, 3060783981004, 3182416524832, 3307012046945, 3434561225645, 3565051131004, 3698465221563, 3834783141606, 3973980781619, 4116030292397, 4260899922648, 4408554089850, 4558953388854, 4712054472792, 4867810158974, 5026169423561, 5187077307934, 5350475067160, 5516300169293, 5684486211266, 5854963107251, 6027657103282, 6202490695643, 6379382850728, 6558249046909, 6739001203352, 6921547906574, 7105794480365, 7291642941851, 7478992230098, 7667738290388, 7857774059618, 8048989703546, 8241272700785, 8434507865623, 8628577597686, 8823361952383, 9018738688916, 9214583548036, 9410770317986, 9607170879264, 9803655512445, 10000092968338, 10196350507747, 10392294222573, 10587789125958, 10782699181774, 10976887613498, 11170217031674, 11362549466188, 11553746646010, 11743670135244, 11932181400862, 12119142062779, 12304414017695, 12487859542917, 12669341528675, 12848723576633, 13025870124994, 13200646697126, 14034361825186, 14192169290107, 14346705962992, 14497850601898, 14645484307520, 14789490592886, 14929755436539, 15066167512346, 15198618276161, 15327002026946, 15451216094853, 15571160921779, 15686740130226, 15797860694803, 15904432998027, 16006370908045, 16103591935405, 16196017263096, 16283571817344, 16366184428318, 16443787845527, 16516318770336, 16583718019998, 16645930548169,

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 160344810, 135431808, 114117746, 95923935, 80428483, 67265736, 56111173,  
 46681006, 38731301, 32046021, 26438475, 21749899, 17839141, 14586067,  
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 206935, 156685, 117572, 87739, 65508, 48207, 35065, 25832, 18682, 13080,  
 9479, 6821, 4508, 3162, 2330, 1434, 920, 730, 427, 217, 201, 122, 36, 43, 34,  
 3, 5, 8, 0, 0, 1

### 3.2 Sequence for the Probability of Either Candidate Getting Exactly $i$ Votes, Using USEC() and Using Biden's Popular Vote Percentage in 2020 as $p$

```
v:=[81282896,74222484];
p:=v[1]/(v[1]+v[2]);
f1 := evalf(GFvp(USEC(), p, x));
seq(coeff(f1,x,i),i=1..degree(f1,x));
```

0, 0, 3.637868801\*10<sup>(-16)</sup>, 2.273668001\*10<sup>(-16)</sup>, 1.364200801\*10<sup>(-16)</sup>,  
 1.667212504\*10<sup>(-15)</sup>, 2.128380572\*10<sup>(-15)</sup>, 1.784113138\*10<sup>(-15)</sup>,  
 6.327781814\*10<sup>(-15)</sup>, 1.065549704\*10<sup>(-14)</sup>, 1.156597235\*10<sup>(-14)</sup>,  
 2.336625882\*10<sup>(-14)</sup>, 4.091855453\*10<sup>(-14)</sup>, 5.212827776\*10<sup>(-14)</sup>,  
 8.283821011\*10<sup>(-14)</sup>, 1.375117597\*10<sup>(-13)</sup>, 1.891804349\*10<sup>(-13)</sup>,  
 2.741423846\*10<sup>(-13)</sup>, 4.229581688\*10<sup>(-13)</sup>, 5.964529940\*10<sup>(-13)</sup>,  
 8.355816723\*10<sup>(-13)</sup>, 1.214407356\*10<sup>(-12)</sup>, 1.704465321\*10<sup>(-12)</sup>,  
 2.347971690\*10<sup>(-12)</sup>, 3.279752711\*10<sup>(-12)</sup>, 4.522784626\*10<sup>(-12)</sup>,  
 6.144833815\*10<sup>(-12)</sup>, 8.358955482\*10<sup>(-12)</sup>, 1.129973542\*10<sup>(-11)</sup>,  
 1.513266363\*10<sup>(-11)</sup>, 2.019079275\*10<sup>(-11)</sup>, 2.680343319\*10<sup>(-11)</sup>,  
 3.536301472\*10<sup>(-11)</sup>, 4.644631296\*10<sup>(-11)</sup>, 6.069394846\*10<sup>(-11)</sup>,  
 7.893687723\*10<sup>(-11)</sup>, 1.022345581\*10<sup>(-10)</sup>, 1.317691476\*10<sup>(-10)</sup>,  
 1.691250679\*10<sup>(-10)</sup>, 2.162524118\*10<sup>(-10)</sup>, 2.753105422\*10<sup>(-10)</sup>,  
 3.491213111\*10<sup>(-10)</sup>, 4.411863451\*10<sup>(-10)</sup>, 5.553710004\*10<sup>(-10)</sup>,  
 6.965556582\*10<sup>(-10)</sup>, 8.707677463\*10<sup>(-10)</sup>, 1.084765790\*10<sup>(-9)</sup>,  
 1.346809312\*10<sup>(-9)</sup>, 1.666949894\*10<sup>(-9)</sup>, 2.056635303\*10<sup>(-9)</sup>,  
 2.529541044\*10<sup>(-9)</sup>, 3.102055450\*10<sup>(-9)</sup>, 3.792939655\*10<sup>(-9)</sup>,  
 4.624378458\*10<sup>(-9)</sup>, 5.622496334\*10<sup>(-9)</sup>, 6.817228638\*10<sup>(-9)</sup>,  
 8.243712019\*10<sup>(-9)</sup>, 9.942799058\*10<sup>(-9)</sup>, 1.196112490\*10<sup>(-8)</sup>,  
 1.435302840\*10<sup>(-8)</sup>, 1.718119211\*10<sup>(-8)</sup>, 2.051669327\*10<sup>(-8)</sup>,  
 2.444179483\*10<sup>(-8)</sup>, 2.905075157\*10<sup>(-8)</sup>, 3.444983622\*10<sup>(-8)</sup>,  
 4.076100707\*10<sup>(-8)</sup>, 4.812328693\*10<sup>(-8)</sup>, 5.669268323\*10<sup>(-8)</sup>,  
 6.664659460\*10<sup>(-8)</sup>, 7.818620498\*10<sup>(-8)</sup>, 9.153640179\*10<sup>(-8)</sup>,  
 1.069508525\*10<sup>(-7)</sup>, 1.247153661\*10<sup>(-7)</sup>, 1.451484741\*10<sup>(-7)</sup>,

1.686069050\*10<sup>(-7)</sup>, 1.954898401\*10<sup>(-7)</sup>, 2.262406625\*10<sup>(-7)</sup>,  
2.613530723\*10<sup>(-7)</sup>, 3.013757964\*10<sup>(-7)</sup>, 3.469156614\*10<sup>(-7)</sup>,  
3.986452502\*10<sup>(-7)</sup>, 4.573074977\*10<sup>(-7)</sup>, 5.237199839\*10<sup>(-7)</sup>,  
5.987846866\*10<sup>(-7)</sup>, 6.834927944\*10<sup>(-7)</sup>, 7.789295340\*10<sup>(-7)</sup>,  
8.862863864\*10<sup>(-7)</sup>, 1.006866726\*10<sup>(-6)</sup>, 1.142090610\*10<sup>(-6)</sup>,  
1.293509356\*10<sup>(-6)</sup>, 1.462812496\*10<sup>(-6)</sup>, 1.651832811\*10<sup>(-6)</sup>,  
1.862562377\*10<sup>(-6)</sup>, 2.097161080\*10<sup>(-6)</sup>, 2.357962411\*10<sup>(-6)</sup>,  
2.647490587\*10<sup>(-6)</sup>, 2.968470126\*10<sup>(-6)</sup>, 3.323832727\*10<sup>(-6)</sup>,  
3.716735606\*10<sup>(-6)</sup>, 4.150571192\*10<sup>(-6)</sup>, 4.628975352\*10<sup>(-6)</sup>,  
5.155847146\*10<sup>(-6)</sup>, 5.735357866\*10<sup>(-6)</sup>, 6.371960050\*10<sup>(-6)</sup>,  
7.070409090\*10<sup>(-6)</sup>, 7.835771395\*10<sup>(-6)</sup>, 8.673433061\*10<sup>(-6)</sup>,  
9.589123418\*10<sup>(-6)</sup>, 0.00001058892216, 0.00001167926690,  
0.00001286697820, 0.00001415926573, 0.00001556373403,  
0.00001708840757, 0.00001874173660, 0.00002053260081,  
0.00002247033301, 0.00002456472358, 0.00002682602307,  
0.00002926496338, 0.00003189275900, 0.00003472110944,  
0.00003776221733, 0.00004102878456, 0.00004453401399,  
0.00004829162623, 0.00005231584835, 0.00005662141288,  
0.00006122357482, 0.00006613809282, 0.00007138122346,  
0.00007696973735, 0.00008292089497, 0.00008925243381,  
0.00009598258274, 0.0001031300334, 0.0001107139210,  
0.0001187538333, 0.0001272697784, 0.0001362821612,  
0.0001458117858, 0.0001558798176, 0.0001665077564,  
0.0001777174341, 0.0001895309682, 0.0002019707332,  
0.0002150593543, 0.0002288196509, 0.0002432746066,  
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