```
ln[37] = n = 10000000;
SumOfAllWinnings = 0;
maxWin = 2;
For [i = 1, i \le n, i++,
   notTails = True;
  pot = 2;
   (* loop until you get a tails *)
  While[notTails,
    (* 0 is heads / 1 is tails *)
    flip = RandomInteger[{0, 1}];
    If[flip == 0,
         pot = pot * 2;
     , (* else *)
         notTails = False;
    ];
   ]; (* end while *)
   SumOfAllWinnings = SumOfAllWinnings + pot;
   If(pot > maxWin,
       maxWin = pot;
  ];
 ];
Print["We did the St. Petersburg Paradox ", n, " times"];
Print["The average win was: ", N[SumOfAllWinnings/n]];
Print["The max win was: ", maxWin];
We did the St. Petersburg Paradox 10000000 times
The average win was: 23.4271
The max win was: 8388608
```