```
ln[[7]]:= n = 10000 000;
SumOfAllWinnings = 0;
maxWin = 2;
For[i=1,i\leqn, 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
```

