

# Final Write Up

Robert Ebanks

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Firstly is the def functions which generate tuples of length  $n$  and  $n+1$  from a list that is given to it.(unfortunately I was unable to optimize these functions to work correctly for  $n=4,5$  (they work for  $n= 2,3$ )). The itertools lists then generates every possible bit string of length  $n$  and  $2^n$