

# Assignment 1 in L<sup>A</sup>T<sub>E</sub>X

Shaik Armaan\*

## Assignment 1

Problem 1 Let  $X$  represent the difference between the number of heads and the number of tails obtained when a coin is tossed 6 times. What are possible values of  $X$ ?

Answer 1

The values of  $X$  can take any value in the set  $[-6, -4, -2, 0, 2, 4, 6]$ . This is the case if  $X$  is the difference between no. of heads and tails but if it is the absolute value then  $[0, 2, 4, 6]$

\*The student is with the Department of Computer Science Engineering, Indian Institute of Technology, Hyderabad 502285 India e-mail: cs22btech11051@iith.ac.in.