

Name: Minh Khai Tran
zID: z5168080

Question 2:

- The strategy for this problem is:
 - We try to win as many as possible with our given number of Rock (R_b), Paper (P_b) and Scissor (S_b) rounds.
 - Then we try to draw as many as possible with leftover Rocks (if $R_b > S_a$), Papers (if $P_b > R_a$) or Scissors (if $S_b > P_a$).
 - Then we have to lose but we lose in minimum number of rounds.
- Firstly, we allocate Papers to the opponent's event of throwing Rock as many as possible, and we do similarly with Rocks and Scissors.
 - After this step, we guaranty that we win the game as many as possible with our given number of Rock, Paper, Scissor rounds.
- Secondly, we allocate the leftover Rocks (if possible) to the opponent's event of throwing Rock as many as possible, and we do similarly with Papers or Scissors.
 - After this step, we guaranty that we draw the game as many as possible with our leftover of Rocks, Papers or Scissors.
- Eventually, we gain the maximum number of points.