Homework 12, DUE Wed July 27

For this HW assume that $A_1, A_2, A_3, A_4$ and $B_1, B_2, B_3, B_4, B_5$ are people. And so is Zelda.

1. Zelda wants that if at least ONE of the $A_i$’s AND at least ONE of the $B_i$’s get together they can recover the secret; however, no other set can. She also wants everyone to get a string of length about the length of the secret. Describe what she does.

2. Zelda wants that if at least TWO of the $A_i$’s AND at least THREE of the $B_i$’s get together they can recover the secret; however, no other set can. She also wants everyone to get a string of length about the length of the secret. Describe what she does.

3. Zelda wants that if any two adjacent $A_i$’s (e.g., $A_1$ and $A_2$, we do NOT allow wraparound, so NOT $A_4$ and $A_1$) or any two adjacent $B_j$’s get together then they can recover the secret; however, no other set can. Describe what she does.