This program allows you to play a game called *master mind*. 
You have to do the following:

1. Define (input) 
   (a) the number of integers \((N)\) to play with. For example, \(N = 5\) means you like to play with 5 numbers which is 1 to 5, 
   (b) the number of positions \((P)\). For example, \(P = 4\) means you have 4 positions to put 4 integers, such as \((1 2 3 4)\) that users like to guess. 
   (c) both \(N\) and \(P\) are from command argument list. 

2. Write a loop to let user input his guesses. If both the positions and number are correct, the program prompts an H and if only the number is correct, it prompts an X. For example, 
   \[ \begin{align*} 
   1 & 2 & 3 & 4 \\
   1 & 3 & 5 & 1 \rightarrow & 1 \text{ H} & \text{ and } & 1 \text{ X} 
   \end{align*} \]

3. User input his guesses until his guesses are correct and the program terminates. 

Score:  
Argument list  20%  
Random  20%  
3 functions  20%  
Result correctness  20%  
Report  20%  

※ 答案所產生的數字不要重複  
Ex : \(N = 6\), \(P = 3\): 答案可以是 213, 624 … , 但不要產生 222, 323…  
※ 當輸入值 \(P > N\) 時，請直接結束程式  
※ 答案必須要隨機產生  
※ 必須要寫3個function  

※ The number in answer string shouldn’t be repeated  
Ex : \(N = 6\), \(P = 3\): The answer could be 213, 624… , but not 222, 323…  
※ If input value \(P > N\), please end your program directly.  
※ The answer must be randomly generated  
※ You have to write 3 functions