1.1 $\log_2 128 = $ max num steps $= 7$

1.2 max num $= \log_2 256 = 8$

1.3 Binary search $O(\log n)$

1.4 linear search $O(n)$

1.5 $O(n)$

1.6 $O(A)$

2.1 list

2.2 linked list

2.3 array $O(1)$

2.4 Resizing array - shifting elements

2.5 Searching faster
array > hybrid > linked list
Inserting faster
linked list > hybrid > array

①

3.1 The fun Greet2 will excuted first
then it will popped of.
then fun Greet will excute

3.2 will result in stack overflow