Students: Ling Xiang Zou (60038213), Tang Ao (64277791)

Array tools for searching and sorting characters and numbers

Sub-package 1: character array tools

- Character array tools
  - Function 1: print array
  - Function 2: check whether the elements in the array are character
  - Function 3: check whether the array is empty
  - Function 4: Insert an element

- Character sorting
  - Function 1: Ascending sorting
  - Function 2: Descending sorting
  - Function 3: Unsorting

- Character searching
  - Function 1: search smallest the alphabet
  - Function 2: search largest the alphabet
  - Function 3: search specific alphabet

Sub-package 2: number array tools

- Number array tools
  - Function 1: print array
  - Function 2: check whether the elements in the array are number
  - Function 3: check whether the array is empty
  - Function 4: Insert an element

- Number sorting
  - Function 1: Ascending sorting
  - Function 2: Descending sorting
  - Function 3: Unsorting

- Number searching
  - Function 1: search smallest the number
  - Function 2: search largest the number
  - Function 3: search specific number