# Swap the Algorithm with the flow diagram

Github Url: <https://github.com/davidpales1/HW_Swap_Algorithm>

This C++ program allows the user to create and sort an array of integers or strings based on user input. For more details look at the flow chart that i create in the next page:

createArray()

main

getArraySize()

Input choice

Int choice

Print

(What type of array do you want to create!\nIf string it will sort out alphabetically and if it's int it will sort out numerically or alphabetically\n(1 for integer, 2 for string):)

constexpr int MAX\_ARRAY\_SIZE;

string sort\_type;

int arrInt[MAX\_ARRAY\_SIZE];

string arrStr[MAX\_ARRAY\_SIZE];

Invalid choice. Please enter 1 for integer or 2 for string.

Else if

else

yes

choice == 2

getAndprintStringList (arraySize)

getAndprintIntList(arraySize)

yes

choice == 1

delete[] arrInt;

Print

"The integer array you created is" i ":

i++

i < arraySize;

sort\_integers(arrInt, arraySize)

int i = 0;

i++

Input element

Print

"Enter an integer value for element " i ":

i < arraySize;

int\* arrInt = new int[arraySize];

delete[] arrStr;

i++

Print

"The string array you created is" i ":

i < arraySize;

int i = 0;

i++

Input element

Print

"Enter a string value for element " i ":

i < arraySize;

sort\_integers(arrStr, arraySize)

string\* arrStr = new string[arraySize];

Continue

Input arraySize

arraySize > 0 && arraySize < 100

else

Print

Enter the number of elements in the array(The number should be between 0-100):

int arraySize = 0;

While(true)

sort(arr, arr + size);

sort(arr, arr + size);