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# 자료구조(01)

Programming Assignment II

컴퓨터공학과

학번: 20202106

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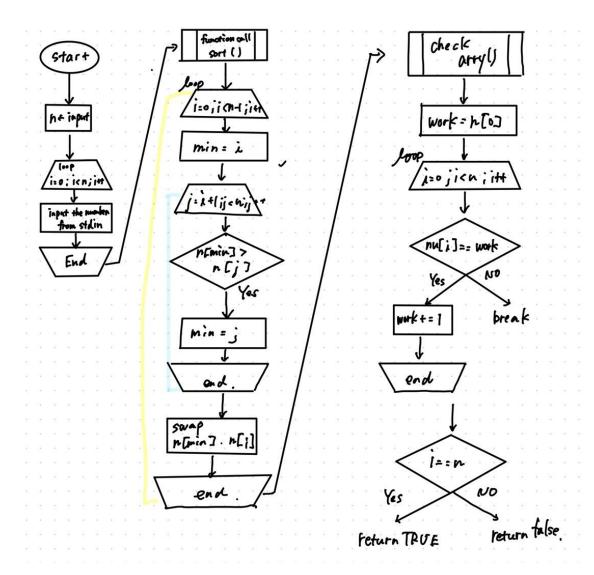
### NO1.

```
int main() {
     Get the line of the string and pattern from stdin
     Function call.
void fail()
     failure[0]: -1
     beign
     for j = 1 to j< length of pattern
    i = failure[j - 1];</pre>
       begin
          while ((pat[j] ≠ pat[i + 1]) && (i >= 0))
i = failure[i];
          if : pat[j] = pat[i + 1] then failure[j] = i + 1;
          else failure[j] :-1;
int pmatch_all()
{
          begine
          while i < lens && j < lenp;)
              if (string[i] == pat[j]) then i++; j++
else if (j == 0) then i++;
else j = failure[j - 1] + 1;
          if (j == lenp) then return i-lenp
          else return -1;
}
 行 33、列 13
```

No. 2

#### 자료구조 HW2

```
HW2_2
int main() {
             n←input the number of inputs
int num[]←input the "n" numbers
        put n numbers in the num[] in order from smallest to largest by "sort function" sort(num[] n) \,
        chech_arry()
return
}
void sort() {
              for i = 0 to N length-1
                        min = i;
for j = i + 1 to N.length -t
if (num[min] > num
[j]) min = j;
         swap num[i] and num[min]
}
int chech_arry() {
              work \leftarrow num[0] count up from work=num[0] to num[n]
             for i = 0 to N.length
    if num[i] == work
        work += 1;
                           else break; return FALSE
       if the number of counting == the number of elements if (i == n) return TRUE;
}
```



3

```
int main() {
    Read file
   Get n(=number of the student) from the file*/
   Get the name from the file and assign it array
    for i<n i++
        lastname[i]
        firstname[i]
   Close file.
   Sort the name, following the lexical order rule.
     function sort_name()
   Output the sorted name
      for (i = 0; i < n; i++)
            stdout ← lastname[i], firstname[i]
}
int str_cmp(char* p1, char* p2) {
    Copmare two strings.
    for (; *p1 == *p2; p1++, p2++) {
        if (*p1 == '\(\frac{4}{9}\)) return 0;
   return (*p1 - *p2);
```

