

Lab10

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Part1

1) Code


A terminal window with a dark background and light-colored text. The window title bar shows a user icon, the username 'hlee152@gsuad.gsu.edu@snowball:~', and standard window control buttons (minimize, maximize, close). The code is written in C and uses syntax highlighting: keywords like 'include', 'char', 'int', 'for', 'return', and 'main' are in green; string literals and pointers are in red; and identifiers like 'strDest', 'strSrc', 'i', and 'strDest[i]' are in yellow. The code defines a 'strcpy' function that copies a string from 'strSrc' to 'strDest' and returns 'strDest'. Below the function, the 'main' function is partially visible, starting with 'int main() {' and followed by a closing brace and four tilde characters '~' on separate lines.

```
hlee152@gsuad.gsu.edu@snowball:~  
#include<stdio.h>  
  
char *strcpy(char *strDest, const char *strSrc) {  
    int i;  
    for(i=0; i<strlen(strSrc); i++){  
        strDest[i]=strSrc[i];  
    }  
    return strDest;  
}  
  
int main() {  
}  
~  
~  
~  
~
```

2) If we use char* as return, we can easily access to this function and ease to use it. We can just call this function to use, and we also can call this function within printf(destination string will be returned).

Part2

1) Code

 hlee152@gsuad.gsu.edu@snowball:~

```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int main(){

    char type[21], smallest_word[21], largest_word[21];

    printf("Enter Word : ");
    scanf("%s", type);
    strcpy(smallest_word, type);
    strcpy(largest_word, type);

    while(strlen(type) !=4) {

        if(strcmp(type, smallest_word) < 0) {
            strcpy(smallest_word, type);
        } else if(strcmp(type, largest_word) > 0) {
            strcpy(largest_word, type);
        }

        printf("Enter Word : ");
        scanf("%s", type);
    }

    printf("Smallest word : %s\n", smallest_word);
    printf("Largest word : %s\n", largest_word);

    return 0;
}
```

2) Output

```
[hlee152@gsuad.gsu.edu@snowball ~]$ ./findStr
Enter Word : dog
Enter Word : zebra
Enter Word : rabbit
Enter Word : catfish
Enter Word : walrus
Enter Word : cat
Enter Word : fish
Smallest word : cat
Largest word : zebra
[hlee152@gsuad.gsu.edu@snowball ~]$
```