FND 15

getString source code

```
char *getString()
{
    char *s;
    fgets(s, 100, stdin);
    length = strlen(s);
    char *sArray[length];
    return s;
}
```

Modified main source code

```
int main(int argc, char *argv[])
{

FILE *f = fopen(argv[1], "w");
    if (f == (FILE *)NULL)
    {
        printf("Error opening %s\n", argv[1]);
    }
    char *s = getString();
    fputString(f, s);
    int j = 0;
    while (j < 4)
    {
        s = getString();
        fputString(f, s);
        j++;
    }
    fclose(f);
    return EXIT_SUCCESS;
}</pre>
```

Source code of the whole program

```
#include <stdio.h>
     #include <stdlib.h>
     #include <string.h>
     int length;
     int i;
     char *getString()
8
         char *s:
         fgets(s, 100, stdin);
         length = strlen(s);
11
         char *sArray[length];
12
         return s;
     int main(int argc, char *argv[])
17
         FILE *f = fopen(argv[1], "w");
         if (f == (FILE *)NULL)
             printf("Error opening %s\n", argv[1]);
         char *s = getString();
         fputString(f, s);
         int j = 0;
         while (j < 4)
             s = getString();
             fputString(f, s);
             j++;
         fclose(f);
         return EXIT SUCCESS;
```

Terminal input

```
PS C:\Users\momou\Desktop\University\CS 2263\ForNextDay\ForNextDay()15> ./main output.txt
Mahmoud
James
King
Street
LiverPool
```

Output.txt

- 7 Mahmoud
- 5 James
- 4 King
- 6 Street
- 9 LiverPool

compareString source code

```
int compareString(char *str1, char *str2)
{
    char **str1P = (char**) str1;
    char **str2P = (char**) str2;
    return strcmp[*str1P, *str2P];
}
```

Source code of the whole program

```
#include <stdlib.h>
     #include <stdio.h>
     #include "Strings.c"
     int compareString(char *str1, char *str2)
         char **str1P = (char**) str1;
         char **str2P = (char**) str2;
         return strcmp(|*str1P, *str2P|);
8
     int main(int argc, char* argv[])
11
         char* stringsArray[] = {"Hello", "World", "Name", "Age"};
12
         printf("Array contents:\n");
         int i;
         for(i = 0; i < 4; i++)
             printf("%s ", stringsArray[i]);
         printf("\n");
         printf("Array after ordering:\n");
         qsort(stringsArray, 4, sizeof(char*), compareString);
         for (i = 0; i < 4; i++)
             printf("%s\n", stringsArray[i]);
```

Terminal output

```
PS C:\Users\momou\Desktop\University\CS 2263\ForNextDay\ForNextDay()15> ./compareStrings
Array contents:
Hello World Name Age
Array after ordering:
Age
Hello
Name
World
```