

Problem 1 Source Code:

```
1  #include<stdio.h>
2  #include<math.h>
3  #include<string.h>
4  #include<time.h>
5  #include<stdlib.h>
6
7  int main(void){
8      //defining my variable
9      int grade;
10
11     //asking for user input
12     printf("Please enter your grading percentage: ");
13     scanf("%d", &grade);
14
15     //going through a ton of if statements to check what grade you should get for the input
16     if(grade <= 100 && grade >= 93){
17         printf("A");
18     } else if (grade >= 90 && grade < 93){
19         printf("A-");
20     } else if (grade >= 87 && grade < 90){
21         printf("B+");
22     } else if (grade >= 83 && grade < 87){
23         printf("B");
24     } else if (grade >= 80 && grade < 83){
25         printf("B-");
26     } else if (grade >= 77 && grade < 80){
27         printf("C+");
28     } else if (grade >= 73 && grade < 77){
29         printf("C");
30     } else if (grade >= 70 && grade < 73){
31         printf("C-");
32     } else if (grade >= 67 && grade < 70){
33         printf("D+");
34     } else if (grade >= 63 && grade < 67){
35         printf("D");
36     } else if (grade >= 60 && grade < 63){
37         printf("D-");
38     } else if (grade >= 0 && grade < 60){
39         printf("F");
40     } else{
41         printf("Your grade must be between 0 percent and 100 percent inclusively");
42     }
43
44     return 0;
45 }
```

Problem 1 Sample Input Output:

```
zhong@JJ-Laptop /cygdrive/c/se185
$ ./grade
Please enter your grading percentage: 92
A-
zhong@JJ-Laptop /cygdrive/c/se185
$ ./grade
Please enter your grading percentage: 110
Your grade must be between 0 percent and 100 percent inclusively
```

Problem 2 Source Code:

```

1  #include<stdio.h>
2  #include<math.h>
3  #include<string.h>
4  #include<time.h>
5  #include<stdlib.h>
6
7  int main(void){
8      //defining variables
9      char correctUser[] = "se185@iastate.edu";
10     char correctPassword[] = "ds4rd";
11     char inputUser[50];
12     char inputPassword[50];
13
14     //asking for user input
15     printf("Enter your username: ");
16     scanf("%s",&inputUser);
17     printf("Enter your password: ");
18     scanf("%s",&inputPassword);
19
20     //comparing the strings then outputting the result
21     if(strcmp(correctUser,inputUser) == 0){
22         printf("Success!");
23     } else {
24         printf("Username or password is incorrect.");
25     }
26     return 0;
27 }

```

Problem 2 Sample Input Output:

```

zhong@JJ-Laptop /cygdrive/c/se185
$ ./password
Enter your username: se185@iastate.edu
Enter your password: ds4rd
Success!
zhong@JJ-Laptop /cygdrive/c/se185
$ ./password
Enter your username: se185
Enter your password: ds4rd
Username or password is incorrect.

```