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1.

```
C as1.c > main(void)
1  #include <stdio.h>
2  #include <string.h>
3
4
5
6  int main(void)
7  {
8      int teenager; int age = 13;
9      teenager = (age >= 13 && 19 >= age)? 1: 0;
10     printf("%d", teenager);
11     return 0;
12 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Users\ASUS\Documents\Jobert\School\First Year\CMSC 21\C Files> cd "c:\  
as1" ; if (\$?) { .\as1 }  
1  
PS C:\Users\ASUS\Documents\Jobert\School\First Year\CMSC 21\C Files>

2.

```

1
2 #include <stdio.h>
3 #include <string.h>
4
5 int main(void){
6
7     int number, tensDigit, onesDigit, answer;
8     int valid = 0;
9
10    // DO-WHILE LOOP TO ACCEPT AND VALIDATE INPUT
11    do
12    {
13        printf("\nEnter two-digit number: ");
14        valid = scanf("%d", &number);
15
16        if(number < 10 || number > 99 || !valid){ // runs if number is not a two-digit number or a non-numeric character was entered
17            valid = 0;
18            printf("\n\n##### ERROR #####\n\nEnter a positive two-digit number!\n\n#####\n\n");
19        }
20        if (!valid){
21            while((number = getchar()) != '\n' && number != EOF); // clears the input stream
22        }
23    } while (!valid);
24
25    tensDigit = number / 10;
26    onesDigit = number % 10;
27
28    printf("Number entered in words: ");
29
30    // PRINTING OF NUMBER IN WORDS
31    if(tensDigit >= 2){ // if number is greater than 19
32
33        switch (tensDigit)
34        {
35            case 9:
36                printf("Ninety");
37                break;
38            case 8:

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```
38         case 8:
39             printf("Eighty");
40             break;
41         case 7:
42             printf("Seventy");
43             break;
44         case 6:
45             printf("Sixty");
46             break;
47         case 5:
48             printf("Fifty");
49             break;
50         case 4:
51             printf("Forty");
52             break;
53         case 3:
54             printf("Thirty");
55             break;
56         case 2:
57             printf("Twenty");
58             break;
59     }
60     switch (onesDigit)
61     {
62         case 9:
63             printf("-nine");
64             break;
65         case 8:
66             printf("-eight");
67             break;
68         case 7:
69             printf("-seven");
70             break;
71         case 6:
72             printf("-six");
73             break;
74         case 5:
75             printf("-five");
```

```
74         case 5:
75             printf("-five");
76             break;
77         case 4:
78             printf("-four");
79             break;
80         case 3:
81             printf("-three");
82             break;
83         case 2:
84             printf("-two");
85             break;
86         case 1:
87             printf("-one");
88             break;
89     }
90 }
91 switch (number)
92 {
93
94     case 19:
95         printf("Nineteen");
96         break;
97     case 18:
98         printf("Eighteen");
99         break;
100    case 17:
101        printf("Seventeen");
102        break;
103    case 16:
104        printf("Sixteen");
105        break;
106    case 15:
107        printf("Fifteen");
108        break;
109    case 14:
110        printf("Fourteen");
111        break;
```

```

110     printf("Fourteen");
111     break;
112     case 13:
113     printf("Thirteen");
114     break;
115     case 12:
116     printf("Twelve");
117     break;
118     case 11:
119     printf("Eleven");
120     break;
121     case 10:
122     printf("Ten");
123     break;
124 }
125
126 // USER CHOICE TO ENTER ANOTHER NUMBER
127 printf("\n\nDo you want to enter another number?\nEnter 1 for Yes and 2 for No: ");
128 scanf("%d", &answer);
129 if (answer == 1){
130     main();
131 }else{
132     printf("Program exited.");
133 }
134
135 return 0;

```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

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PS C:\Users\ASUS\Documents\Jobert\School\First Year\CMSC 21\C Files> cd "c:\Users\ASUS\Documents\Jobert\School\First Year\CMSC 21\C Files" ; if (\$?) { .\as2 }

Enter two-digit number: 21

Number entered in words: Twenty-one

Do you want to enter another number?

Enter 1 for Yes and 2 for No:

<https://github.com/jeremypenafiel/CMSC21.git>