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2021-03842

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1.

```
1  /* ~~~~~
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5  ~~~~~ */
6
7  #include <stdio.h>
8  #include <stdbool.h>
9
10 void main() {
11     bool teenager;
12     int age;
13
14     printf("Input age: ");
15     scanf("%d", &age);
16
17     teenager = (age>=13 && age<=19);
18
19     printf("Teenager: %s", teenager ? "TRUE" : "FALSE");
20 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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

PS C:\Users\User> cd "c:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming"

Input age: 15  
Teenager: TRUE

PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming> if (\$?) { .\as1 }

Input age: 8  
Teenager: FALSE

PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming>

2.

```
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5  ~~~~~ */
6
7  #include <stdio.h>
8
9  int main() {
10     int num;
11
12     printf("Input two-digit number: ");
13     scanf("%d", &num);
14     printf("Input is ");
15
16     // tenths digit
17     switch (num/10) {
18         case 1: // teens
19             switch (num%10) {
20                 case 0:
21                     printf("ten.");
22                     break;
23
24                 case 1:
25                     printf("eleven.");
26                     break;
27                 case 2:
28                     printf("twelve.");
29                     break;
30                 case 3:
31                     printf("thirteen.");
32                     break;
33                 case 4:
34                     printf("forteen.");
35                     break;
36                 case 5:
37                     printf("fifteen.");
38                     break;
39                 case 6:
40                     printf("sixteen.");
41                     break;
42                 case 7:
43                     printf("seventeen.");
44                     break;
45                 case 8:
46                     printf("eighteen.");
47                     break;
48                 case 9:
49                     printf("nineteen.");
50                     break;
51             }
52             return 0;
53
54         case 2:
55             printf("twenty");
56             break;
57
58         case 3:
59             printf("thirty");
60             break;
61
62         case 4:
63             printf("forty");
64             break;
65
66         case 5:
67             printf("fifty");
68             break;
69
70         case 6:
71             printf("sixty");
72             break;
73
74         case 7:
75             printf("seventy");
76             break;
77
78         case 8:
79             printf("eighty");
80             break;
81
82         case 9:
83             printf("ninety");
84             break;
85
86         default:
87             printf("Invalid input! Must be two-digit positive integer. Try again.");
88             return 0;
89     }
90
91     //ones digit
92     switch (num%10) {
93         case 1:
94             printf("-one");
95             break;
96
97         case 2:
```

```

98         printf("-two");
99         break;
100
101     case 3:
102         printf("-three");
103         break;
104
105     case 4:
106         printf("-four");
107         break;
108
109     case 5:
110         printf("-five");
111         break;
112
113     case 6:
114         printf("-six");
115         break;
116
117     case 7:
118         printf("-seven");
119         break;
120
121     case 8:
122         printf("-eight");
123         break;
124
125     case 9:
126         printf("-nine");
127         break;
128     }
129
130     printf(".");
131     return 0;
132 }

```

```

PS C:\Users\User> cd "c:\Us
Input two-digit number: 0
Input is Invalid input! Mus
PS C:\Users\User\Documents\
    if ($?) { .\as2 }
Input two-digit number: 10
Input is ten.
PS C:\Users\User\Documents\
    if ($?) { .\as2 }
Input two-digit number: 15
Input is fifteen.
PS C:\Users\User\Documents\
    if ($?) { .\as2 }
Input two-digit number: 25
Input is twenty-five.
PS C:\Users\User\Documents\
    if ($?) { .\as2 }
Input two-digit number: 90
Input is ninety.
PS C:\Users\User\Documents\
    if ($?) { .\as2 }
Input two-digit number: 42
Input is forty-two.
PS C:\Users\User\Documents\

```