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1.

```
as1.c x
1  #include <stdio.h>
2  #include <stdbool.h>
3
4  int main(void) {
5
6      int age;
7      bool teenager = false;
8
9      printf("Enter age: ");
10     scanf("%d", &age);
11
12     if (age >= 13 && age <= 19)
13     {
14         teenager = true;
15     }
16
17     printf("Result: %s", teenager ? "true" : "false");
18
19
20     return 0;
21 }
```

Results:

Console	Shell	Console	Shell	Console	Shell	Console	Shell
> make -s		> make -s		> make -s		> make -s	
> ./main		> ./main		> ./main		> ./main	
Enter age: 15		Enter age: 19		Enter age: 10		Enter age: 24	
Result: true>		Result: true>		Result: false>		Result: false>	

2.

```
as2.c ×
1  #include <stdio.h>
2
3  int main(void)
4  {
5
6      int num, ones, tens;
7
8      printf("Enter a two-digit number: ");
9      scanf("%d", &num);
10
11     printf("Number entered in words: ");
12
13     if (num == 11)
14     {
15         printf("eleven");
16     }
17     else if ( num == 12)
18     {
19         printf("twelve");
20     }
21     else
22     {
23         ones = num % 10;
24         tens = num - ones;
25
26         if (tens == 10)
27         {
28             if (ones == 3)
29             {
30                 printf("thirteen");
31             }
32             else if (ones == 4)
33             {
34                 printf("fourteen");
35             }
36             else if (ones == 5)
37             {
38                 printf("fifteen");
39             }
40             else if (ones == 6)
41             {
42                 printf("sixteen");
43             }
44             else if (ones == 7)
45             {
46                 printf("seventeen");
47             }
48             else if (ones == 8)
49             {
50                 printf("eighteen");
51             }
52             else if (ones == 9)
53                 printf("nineteen");
54             else
55                 printf("ten");
56     }
```

```
57     else if (tens == 20)
58     {
59         printf("twenty");
60     }
61     else if (tens == 30)
62     {
63         printf("thirty");
64     }
65     else if (tens == 40)
66     {
67         printf("fourty");
68     }
69     else if (tens == 50)
70     {
71         printf("fifty");
72     }
73     else if (tens == 60)
74     {
75         printf("sixty");
76     }
77     else if (tens == 70)
78     {
79         printf("seventy");
80     }
81     else if (tens == 80)
82     {
83         printf("eighty");
84     }
85     else if (tens == 90)
86     {
87         printf("ninety");
88     }
```

```
89
90     if (tens >= 20)
91     {
92         if (ones == 1)
93         {
94             printf("-one");
95         }
96         else if (ones == 2)
97         {
98             printf("-two");
99         }
100        else if (ones == 3)
101        {
102            printf("-three");
103        }
104        else if (ones == 4)
105        {
106            printf("-four");
107        }
108        else if (ones == 5)
109        {
110            printf("-five");
111        }
112        else if (ones == 6)
113        {
114            printf("-six");
115        }
116        else if (ones == 7)
117        {
118            printf("-seven");
119        }
120        else if (ones == 8)
121        {
```

```
122            printf("-eight");
123        }
124        else if (ones == 9)
125        {
126            printf("-nine");
127        }
128    }
129 }
130
131 return 0;
132 }
```

Results:

```
> make -s
> ./main
Enter a two-digit number: 10
Number entered in words: ten>
```

```
Console Shell
> make -s
> ./main
Enter a two-digit number: 11
Number entered in words: eleven>
```

```
> make -s
> ./main
Enter a two-digit number: 19
Number entered in words: nineteen>
```

```
> make -s
> ./main
Enter a two-digit number: 78
Number entered in words: seventy-eight>
```

```
Console Shell
> make -s
> ./main
Enter a two-digit number: 43
Number entered in words: forty-three>
```