

Quick syntax reference

	Syntax	Examples
if-else	<pre>if (condition) { statements ; } else { statements ; }</pre>	<pre>if (n > 0) { average = total / n ; printf("%5.2f",average) ; } else average = 0 ;</pre>
?	variable=(condition)?v1:v2 ;	max = (n1>n2) ? n1:n2 ;
switch	<pre>switch (expression) { case value₁ : statements ; break ; case value₂ : statements ; break ; default : statements ; }</pre>	<pre>char traffic_light ; switch(traffic_light) { case 'R': case 'r': printf("Red: STOP") ; break ; case 'G': case 'g': printf("Green: GO") ; break ; case 'A': case 'a': printf("Amber: READY") ; break ; default: printf("FAULT") ; }</pre>

Exercises

1. Rewrite the following if-else using a switch statement:

```
if ( marriage_status == 'S' )
    printf( "single" ) ;
else if ( marriage_status == 'M' )
    printf( "married" ) ;
else if ( marriage_status == 'W' )
    printf( "widowed" ) ;
else if ( marriage_status == 'E' )
    printf( "separated" ) ;
else if ( marriage_status == 'D' )
    printf( "divorced" ) ;
else
    printf( "error:invalid code" ) ;
```

2. The following three integers

```
if (
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else
```

To test the set testing

3. Write a program to find the second largest number

4. Input two numbers and find their sum

5. In a triangle, if the sum of two sides is greater than the third side, then it is a valid triangle

6. Write a program to find the word frequency in a given text

7. Write a program to find the day of the week for a given date

8. Add two numbers and find the remainder when the sum is divided by 5

9. Write a program to find the sum of all even numbers from 1 to 100

10. Write a program to find the sum of all odd numbers from 1 to 100

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