





Multi-way Choice with if		
/* How many days in a month? */		
if(month == 1){ days = 31;	/* Jan */	
} else if (month == 2) { days = 28 ;	/* Feb */	
} else if (month == 3) { days = 31 ;	/* Mar */	
} else if (month == 4) days = 30 ;	/* Apr */	
	/* need 12 of these	



Alternative: switch

A switch is a form of conditional statement.

It is specifically designed to be useful in multi-way choice situations.

Instead of a condition, there is a value which is tested, and a series of cases of which only one may be chosen.

/* How many days i	n a month? */	
<pre>switch (month) { case 2: days = 28;</pre>	/* February	*/
case 9:	/* September	*/
case 4:	/* April	*/
case 6: case 11:	/* June /* November	*/
days = 30 ; break ; default: days = 31 ;	/* All the rest have 3	, 31*/





Cases

A case is a section of code within the switch statement. A case is executed only if the switch expression has a specified value case value: /* a sequence of statements*/ The sequence is typically ended with special statement break;

break causes the entire switch statement to end

J-11











Bonus Footnote

char marital_status ;

```
switch ( marital_status ) {
case 'm':
case 'M':
```

Why should a character be allowed here, when the expression is supposed to be an integer?

Answer: The actual machine representation of a character is a small integer.

Most of the time, however, you should treat $ints_{,7}$ and chars as fully different types!

