



SWITCHES VS. IF-ELSE LADDERS

Multi-way Branches



SWITCH

- Single test expression
- Only integers
- Expression compared to constants
- Implied ==
- Implied logical-OR

```
switch (choice)
{
    case 'A' :
        break;
    case 'B' :
        break;
    case 'C' :
        break;
    default :
        break;
}
```



IF-ELSE LADDER

- Each branch requires an expression
- All data types
- Expression compared to constants, variables, function calls, other expressions
- ==, <, <=, >, >=
- &&, ||, !

```
if (choice == 'A')
{
    . . .
}
else if (choice == 'B')
{
    . . .
}
else if (choice == 'C')
{
    . . .
}
else
{
    . . .
}
```



SIMPLE BRANCH

```
switch (choice)
{
    case 'A' :
        . . .
        break;
    case 'B' :
        . . .
        break;
    case 'C' :
        . . .
        break;
    default :
        . . .
        break;
}
```

```
if (choice == 'A')
{
    . . .
}
else if (choice == 'B')
{
    . . .
}
else if (choice == 'C')
{
    . . .
}
else
{
    . . .
}
```