

# Enumerations

# Integers

Stel: variabele met eindig aantal verschillende waarden

```
int NORTH = 0;  
int EAST = 1;  
int SOUTH = 2;  
int WEST = 3;
```

```
int richting = SOUTH;  
switch (richting) {  
    case NORTH:  
        // Doe iets  
        break;  
    case EAST:  
        // Doe iets anders  
        break;  
}
```

# Enumerations

```
enum Direction {  
    NORTH, EAST, SOUTH, WEST  
};  
  
enum Direction richting = SOUTH;  
  
void f(enum Direction richting);  
f(EAST);
```

# Enumerations

Enumerations zijn gewoon integers:

```
enum Direction {  
    // 0      1      2      3  
    NORTH, EAST, SOUTH, WEST  
};
```

```
enum Direction richting = SOUTH;  
int test = richting + 1;  
enum Direction richting_2 = test;  
// richting_2 == WEST
```

# Enumerations

```
enum Direction {  
    NORTH = 10, EAST = 7, SOUTH = 4, WEST = 42  
};
```

Opgelet:

```
enum Direction {  
    NORTH = 10, EAST = 10, SOUTH = 4, WEST = 42  
};
```

# Enumerations

Enumerations kunnen vergeleken worden met macro's:

```
enum Direction {  
    NORTH = 10, EAST = 7, SOUTH = 4, WEST = 42  
};
```

is gelijkaardig aan:

```
#define NORTH 10  
#define EAST 7  
#define SOUTH 4  
#define WEST 42
```