

Bitset

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1. A bitset stores bits (elements with only two possible values: 0 or 1, true or false, ...). each element occupies only one bit

2. Initialization

```
std::bitset<numberOfBits> Name;  
  
std::bitset<16> foo;  
std::bitset<16> bar (0xfa2);  
std::bitset<16> baz (std::string("0101111001"));
```

3. Operators - bitwise, shift, relational

4. Operations

```
.[index] - returns value at index  
.size() - number of bits in bitset  
.set(), .set(pos, value)  
.reset(), .reset(pos), .flip()  
.all(), .none(), .any(), .count()
```