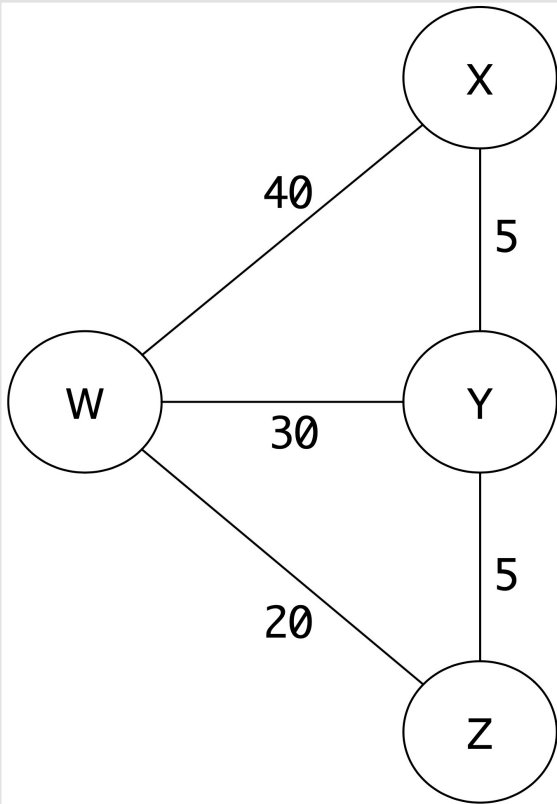


Dijkstra's Shortest Path Algorithm: Example 2



Correctness of Loops: Syntax

$\{Q\}$

S_{init}

while (B) {

S_{body}

}

$\{R\}$

```
void myAlgorithm() {  
    assert Q; /* Precondition */  
    S_init  
    while( B ) {  
        S_body  
        assert I; /* Is LI preserved? */  
    }  
    assert R; /* Postcondition */  
}
```

