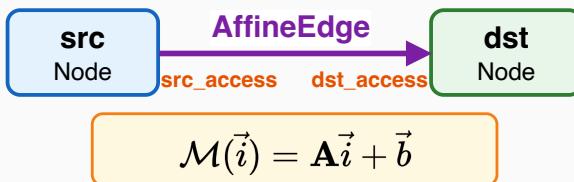


### (a) AffineEdge

```
class AffineEdge {  
    Node src, dst;  
    AffineMap src_access;  
    AffineMap dst_access;  
};
```

```
class AffineMap {  
    Matrix A;  
    Vector b;  
    vector<IVar> ivars;  
};
```



### (b) AffineNode

```
union AffineNode {  
    Buffer buf;  
    Task task;  
    AffineGraph subgraph;  
    vector<AffineEdge> in_edges();  
    vector<AffineEdge> out_edges();  
};
```

**Buffer**  
GMEM / SMEM / REG

**Task**  
MMA, Softmax...

**AffineGraph**  
(nested)

### (c) AffineGraph

```
class AffineGraph {  
    vector<Node> nodes;  
    vector<AffineEdge> edges;  
    vector<AffineEdge>  
    in_edges;  
    vector<AffineEdge>  
    out_edges;  
    void topo_sort();  
    void emit_task();  
};
```

