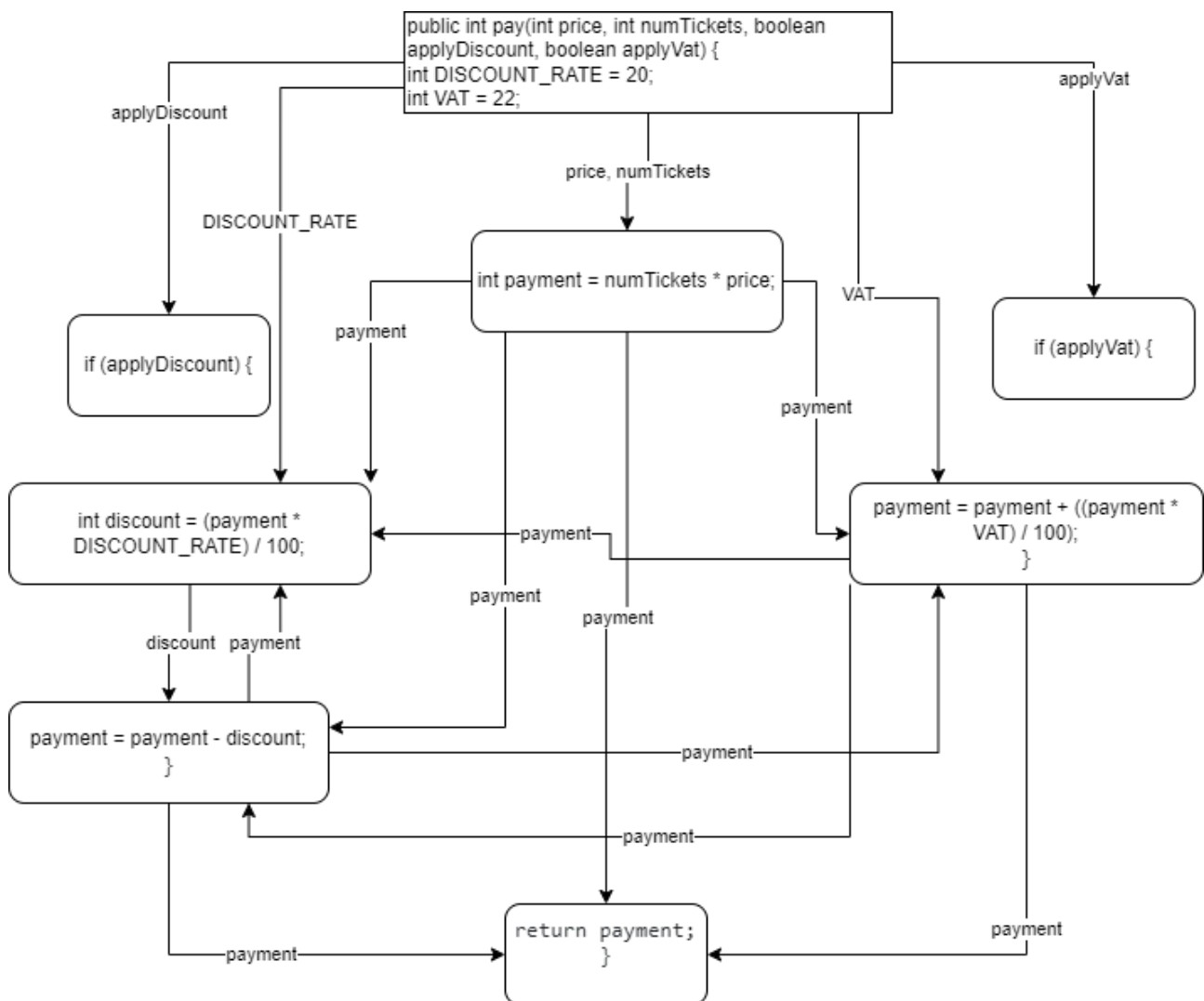


**Create the data and the control dependence graphs for the following program. Use single statements for the nodes of the graph.**

```
public int pay(int price, int numTickets, boolean applyDiscount, boolean applyVat) {
    int DISCOUNT_RATE = 20; //Percent
    int VAT = 22; //Percent
    int payment = numTickets * price;
    if (applyDiscount) {
        int discount = (payment * DISCOUNT_RATE) / 100;
        payment = payment - discount;
    }
    if (applyVat) {
        payment = payment + ((payment * VAT) / 100);
    }
    return payment;
}
```

**DATA DEPENDENCE GRAPH:**



### CONTROL DEPENDENCE GRAPH:

