Tutorial on Intermediate Code Generation

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1. Generate the intermediate code for the following code segment.

```
if(a > b || b > c)
{
    if(a > c)
    {
        b = 5;
    }
}
else
{
    b = 6;
}
a = 7;
```

2. Also use backpatching to generate the intermediate code for the same.

3. Generate the intermediate code for the following code segment.

```
while(a > b || b > c)
{
    if(a > c)
    {
        b = 5;
    }
    a = a + 1;
}
a = 7;
```