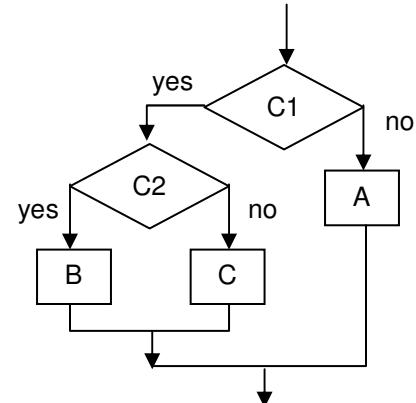
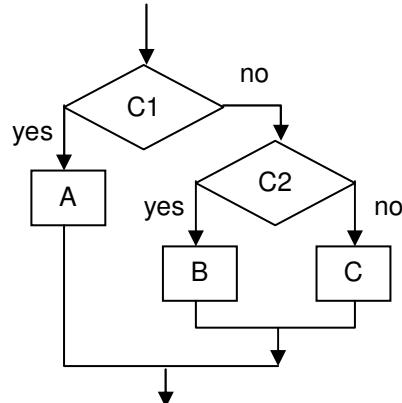
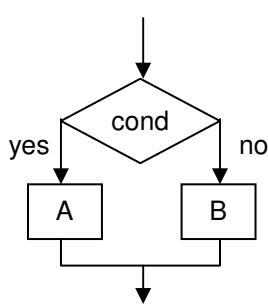


Nested If's



```

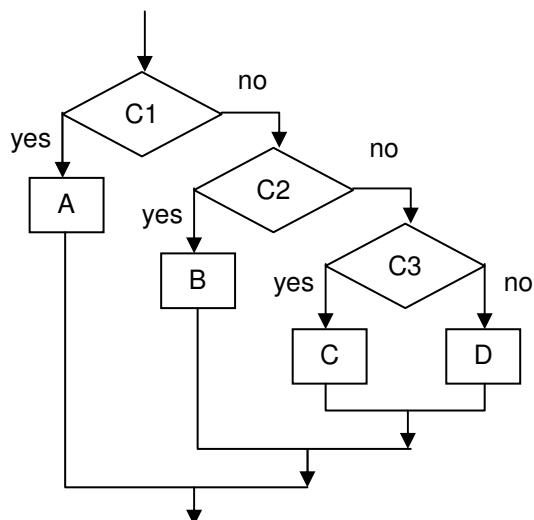
if (cond)
{
  A;
} OR
else
{
  B;
}
  
```

```

if (cond)
{
  A;
} else
{
  if (C2)
    B;
  else
    C;
}
  
```

```

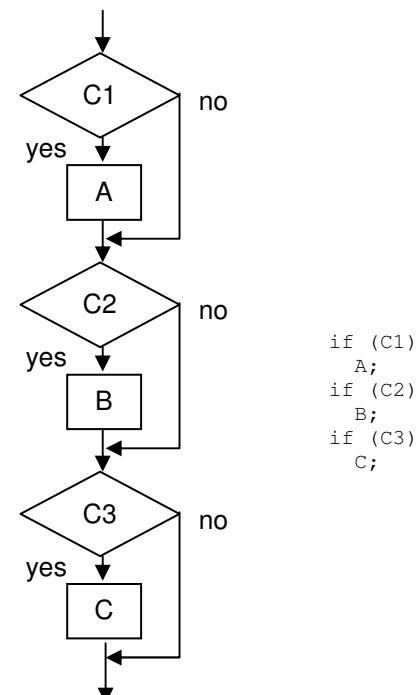
if (C1)
{
  if (C2)
    B;
  else
    C;
} else
{
  A;
}
  
```

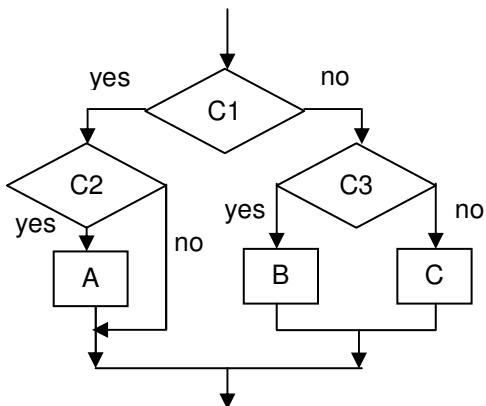


Alternate Form:

```

if (C1)
  A;
else
  if (C2)
    B;
  else
    if (C3)
      C;
    else
      D;
  
```





```

if (C1)
{
    if (C2)
        A;
    else
    {
        if (C3)
            B;
        else
            C;
    }
}

```

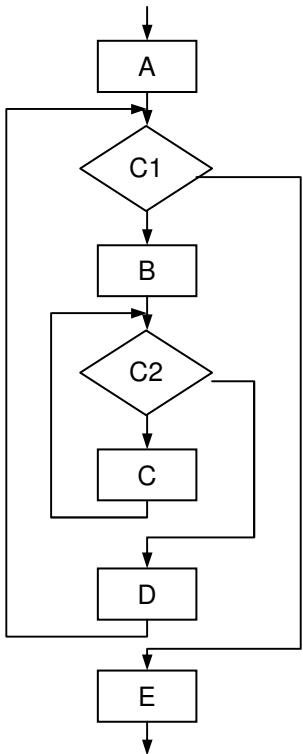
Practice: Convert the following code into a flowchart:

```

if (C1)
{
    A;
    if (C2)
    {
        if (C3)
            B;
        else
            C;
    }
    else
    {
        D;
        if (C4)
            E;
    }
}
else
    F;

```

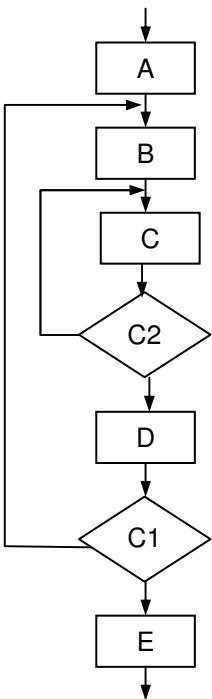
Nested Loops



```

A;
while (C1)
{
    B;
    while (C2)
    {
        C;
    }
    D;
}
E;

```



```

A;
do
{
    B;
    do
    {
        C;
    } while (C2);
    D;
} while (C1);
E;

```

// Produce multiplication // table

```

// Produce multiplication
// table

#include <iostream>
#include <iomanip>
Using namespace std;

void main()
{
    int r, c;

    r = 1;
    while (r <= 10)
    {
        c = 1;
        while (c <= 10)
        {
            cout << setw(4)
                << (r * c);
            c++;
        }
        cout << endl;
        r++;
    }
}

```