

```
#include <stdio.h>
```

```
void main() {
```

```
    int X[10], Y[10];    // integer arrays
    int i, j;            // index variables
```

```
    for (i = 0; i < 10; i++) {        // outer loop
        X[i] = i * 2;                // set X[i]
        for (j = 0; j < 10; j++) {    // inner loop
            if (j < 5)                // set Y[j]
                Y[j] = X[i] + j;      // based on
            else                      // value of j
                Y[j] = X[i] - j;
```

```
        }
```

```
    }
```

```
}
```