

```
int x = input()
```

x

x

```
if (x < MAX)
```

```
int y = 2 * x
```

y

```
vul_fun(y)
```

```
graph TD; A["int x = input()"] -- x --> B["if (x < MAX)"]; A -- x --> C["int y = 2 * x"]; C -- y --> D["vul_fun(y)"];
```

The diagram is a control flow graph with four nodes, each in a rectangular box. The top node contains the code 'int x = input()'. Two arrows originate from its bottom edge: one pointing down and to the left to a node containing 'if (x < MAX)', and another pointing down and to the right to a node containing 'int y = 2 * x'. The left arrow is labeled with the variable 'x' above it. The right arrow is also labeled with 'x' above it. From the bottom edge of the 'int y = 2 * x' node, an arrow points down and to the left to a final node containing 'vul_fun(y)'. This arrow is labeled with the variable 'y' above it.