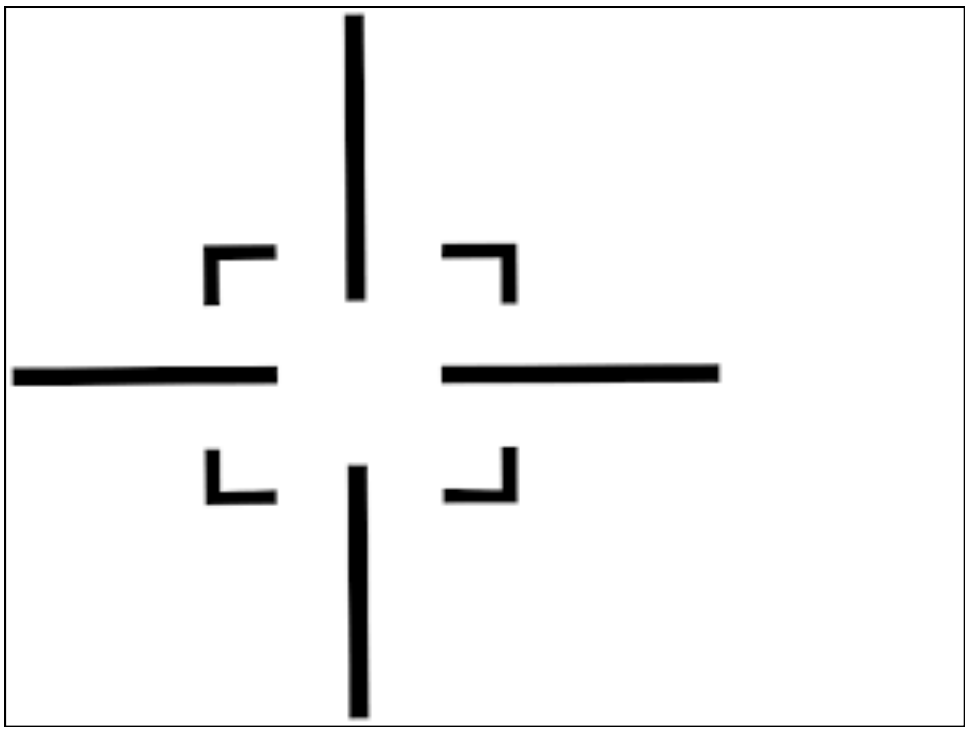
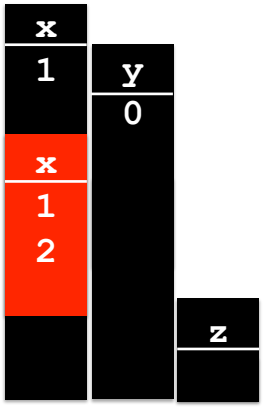
VARIABLE SCOPE

2



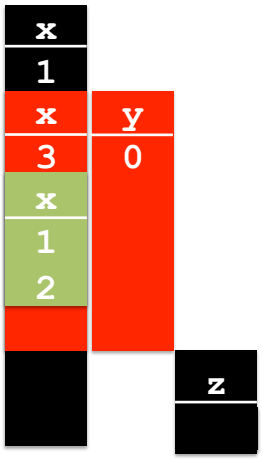
Example 6

```
int x=1;
int y=0;
for (int x=1; x<3; x++)
{
  y=y+x;
}
int z=y;
```



Example 7

```
int x=1;
int f(int x){
  int y=0;
  for (int x=1;x<3;x++)
      {y=y+x;}
  return y+x;
}
int z=f(x+2)+x;
```

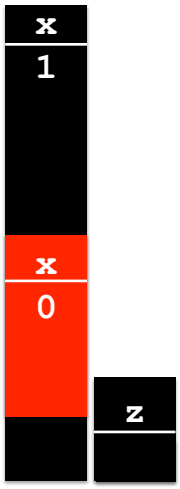


Example 8

```
int x=1;
int f()
{
  return x;
}
int z=f();
```

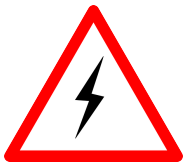
Example 9

```
int x=1;
int f()
{
  return x;
}
int g()
{
  int x=0;
  return f();
}
int z=g();
```



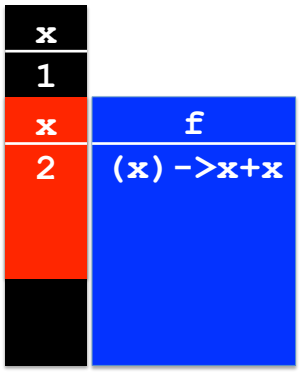
Example 10

```
int f()
{
  return x;
}
int g()
{
  int x=0;
  return f();
}
int z=g();
```



Environment

```
int x=1;
int f(int x)
{
  return x+x;
}
int z=f(x+1);
```



Variable Scope

- Locally declared variables
- Method parameters
- Variables in **`for`** loops

- Methods use environment at declaration time