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Test Cases

Good code:

```
{int a a=a string b a =b}$
```

```
{  
    int a  
    int b  
    a = 0  
    b = 0  
    while (a != 3) {  
        print(a)  
        while (b != 3) {  
            print(b)  
            b = 1 + b  
            if (b == 2) {  
                print("there is no spoon")  
            }  
        }  
        b = 0  
        a = 1 + a  
    }  
}$
```

```
{  
    int x  
    x = 4 + 4  
    if (x == 6 + 2) {  
        print(x)  
    }  
}$
```

```
{  
    int a  
    {  
        boolean b  
        {  
            string c  
            {
```

```
        a = 5
        b = false
        c = "inta"
    }
    print(c)
}
print(b)
}
print(a)
}$
```

```
{
    string k
    {
        k = "han"
    }
    {
        print(k)
    }
}$
```

```
{
    int a
    boolean b
    string c
    a = 5
    b = true
    c = "inta"
    print(c)
    print(b)
    print(c)
    print(5+a)
}$
```

```
{
    int a
    string b
    b = "bee"
    {
        int b
        b = 1
    }
}
```

```
a = b
print(b)
print(a)
}
print(b)
}$
```

```
{
int a
a = 0
string z
z = "bond"
while (a != 9) {
  if (a != 5) {
    print("bond")
  }
  {
    a = 1
    string b
    b = "james bond"
    print(b)
  }
}
{}
boolean c
c = true
boolean d
int b
b = 7
d = (true == (true == false))
d = (a == b)
d = (1 == a)
d = (1 != 1)
d = ("string" == z)
d = (z != "string")
d = ("string" != "string")
if (d == true) {
  int c
  c = 1 + b
  if (c == 1) {
    print("ugh")
  }
}
```

```

while ("string" == z) {
  while (d == true) {
    a = 1 + b
  }
}
}$

```

Bad code:

```

{
  print("")
}
int a
a = 0
int b
b = 8
{
  {
    print("inta is not int a")
    print(1+2+3+4+5+4+3+2+1)
    print(a)
    c = "inta"
  }
  int a
  a = 7
  string b
  b = "one string"
  print(b)
}
}$

```

'c' used without being declared

```

{
  "not a statement"

```

209, 93, 193, 222

```

"two
lines"
}$

```

Undefined ';

```
{"not a statement"  
}$
```

```
{  
  a = 0  
}$
```

'a' is never declared

```
{  
  int a  
  a = "not an int"  
}$
```

Cannot assign different type of value to already declared variable.

```
{  
  int a  
  int a  
}$
```

Redeclared variable

```
{  
  int a  
  boolean a  
}$
```

```
{  
  int a  
  string b  
  a = b  
}$
```

Two different types

```
{print()}whileif""intstringbooleanabc123==!=falsetrue+/**/=$
```

```
/*Variable re-declared on line 6. Results in error.*/
```

```
{  
    string a  
    a = "asdf"  
    print (a)  
    string a  
    a = "test"  
}$
```

```
{string 1}$
```

```
{a=12}$
```

```
{  
~!@#%^&*_{|:<>?[];',./  
boolean d  
}$
```

```
{  
int a  
a == 6  
}$
```

```
{intfintif=2}$
```

```
{  
int a  
string b  
b = a  
}$
```

```
{  
while "not a bool" {  
    print("oh my")  
}  
print("done")  
}$
```

```
{  
  boolean b  
  b = "false"  
}$
```

```
{  
  int a  
  int b  
  b = a  
}$
```