



Cairo University



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Syntax

Team 1

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Variable:



```
1 int x = 0 ;  
2 bool y = true;  
3 y = false;  
4 string z = "this is a new string";  
5 const int w = 3;
```

Functions:



```
1 int func Foo(int par1, int par2){  
2     return 0;  
3 }  
4  
5 int func Main(){  
6  
7     int z = Foo(1,2);  
8     return 0;  
9 }
```

Flow Control:



```
1  int func Main(){
2
3      int x = 0;
4      if(x==0){
5          int x = 1;
6          x=x;
7      }else if(x==1){
8          x--;
9      }else
10         x-=1;
11
12
13     for (int i = 0; i<10; i++){
14         print(i);
15         if(i==7){
16             continue;
17         }else if(i==9){
18             break;
19         }
20     }
21
22     do{
23         print("Inside While");
24     }while(true);
25
26     switch(x){
27         case 0:
28             x++;
29             break;
30         case 1:
31             x--;
32             break;
33         default:
34             x=0;
35     }
36
37 }
```



```
1  int func Main(){
2
3      int x = 2;
4      int y = 3;
5      int z = y + x;
6      z = y - x;
7      z = y / x;
8      z = y * x;
9      z = y % x;
10     z += x;
11     z -= x;
12     z /= x;
13     z *= x;
14     z++;
15     z--;
16
17
18     bool t;
19     t = x > y;
20     t = x < y;
21     t = x >= y;
22     t = x <= y;
23     t = x and y;
24     t = x or y;
25     t = not t;
26     t = x == y;
27     return 0;
28 }
```

Assumptions:

1. Function names start with capital letter
2. Variable name starts with small letter
3. Cannot escape special characters in the string value
4. NIL is used instead of NULL
5. Statements cannot be empty (at least semicolon)