



CC50

O CURSO DE HARVARD. NO BRASIL.

Uma história de amor de Cookies

when  clicked

say O hai, world!



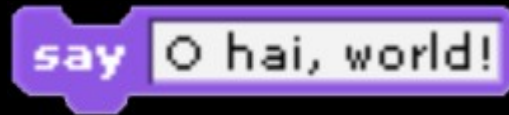
```
#include <stdio.h>
```

```
int  
main()  
{  
    printf("O hai, world!\n");  
}
```

instruções



instruções



```
printf("O hai, world!\n");
```

loops



loops



```
while (true)
{
    printf("O hai!\n");
}
```


loops



loops



```
for (int i = 0; i < 10; i++)  
{  
    printf("O hai!\n");  
}
```

variáveis



variáveis



```
int counter = 0;
while (true)
{
    printf("%d\n", counter);
    counter++;
}
```

Expressões Booleanas

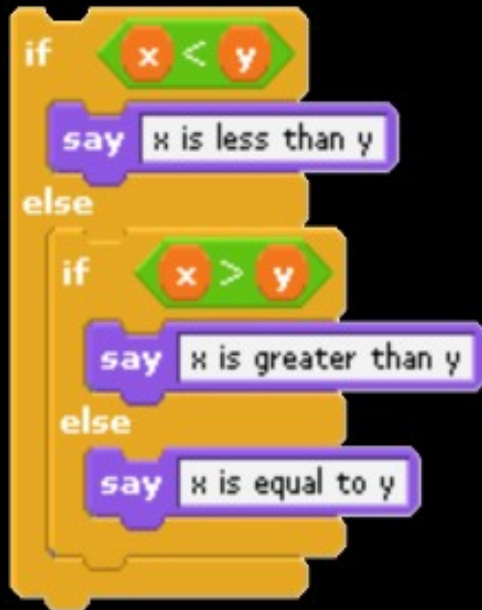


Expressões Booleanas

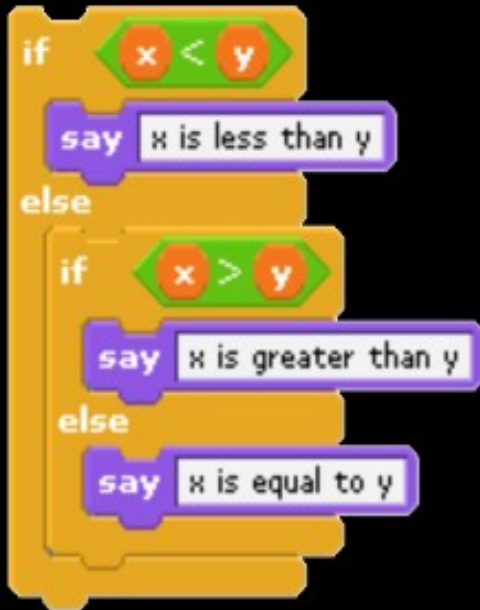


$(x < y)$
 $((x < y) \ \&\& \ (y < z))$

Condições



Condições



```
if (x < y)
{
    printf("x é menor que y\n");
}
else if (x > y)
{
    printf("x é maior que y\n");
}
else
{
    printf("x é igual a y\n");
}
```


arrays



```
string inventory[1];  
Inventory[0] = "Orange";
```

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

```
int
```

```
main()
```

```
{
```

```
    printf("0 hai, world!\n");
```

```
}
```

10000011	00000001	00010001	00000000	00111101	11111100	01110100	00111101
00000000	01000000	00000000	00000000	00000000	00000000	00000000	00000000
10010000	00000000	00000000	00000000	01010000	00000000	00000111	00110000
00001011	00000001	00001011	00000011	00001010	00000000	00000000	00000000
00000000	00100000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00100000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
01110000	00010000	00000000	00100000	00000001	00000000	00000000	00000000
00000000	00000000	00000000	00100000	00000001	00000000	00000000	00000000
00000000	00000000	00000000	01000000	00000001	00000000	00000000	00000000
00000000	00100000	00000000	01000000	00000001	00000000	00000000	00000000
11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
10010000	10000000	00000000	01000000	00000001	00000000	00000000	00000000
00101110	01100100	01111001	01101110	01100001	01101101	01101001	01100011
10110000	00000100	00000000	00100000	00000001	00000000	00000000	00000000
10110000	00000100	00000000	00100000	00000001	00000000	00000000	00000000
10100000	00000001	00000000	00000000	00000000	00000000	00000000	00000000
10110000	00000100	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00100000	00000000	00000000

. . .

Como fazer um programa

1. `nano hello.c`
2. `gcc hello.c`
3. `./a.out`

Como fazer um programa

1. `nano hello.c`
2. `gcc -o hello hello.c`
3. `./hello`

Como fazer um programa

1. `nano hello.c`

2. `make hello`

3. `./hello`

funções

main ...

Standard Library

printf

...

Biblioteca do CC50

GetChar

GetDouble

GetFloat

GetInt

GetLongLong

GetString

printf

%c %d %f %lld %s ...

escape sequences

`\n \r \t \' \" \\ \0 ...`

matemática

+ - * / %

estruturas primitivas

char double float int long long ...

estruturas CC50

bool string

Operator	Description	Associativity
() [] . -> ++ --	Parentheses (grouping) Brackets (array subscript) Member selection via object name Member selection via pointer Postfix increment/decrement (see Note 1)	left-to-right
++ -- + - ! ~ (type) * & sizeof	Prefix increment/decrement Unary plus/minus Logical negation/bitwise complement Cast (change <i>type</i>) Dereference Address Determine size in bytes	right-to-left
* / %	Multiplication/division/modulus	left-to-right
+ -	Addition/subtraction	left-to-right
<< >>	Bitwise shift left, Bitwise shift right	left-to-right
< <= > >=	Relational less than/less than or equal to Relational greater than/greater than or equal to	left-to-right
== !=	Relational is equal to/is not equal to	left-to-right
&	Bitwise AND	left-to-right
^	Bitwise exclusive OR	left-to-right
	Bitwise inclusive OR	left-to-right
&&	Logical AND	left-to-right
	Logical OR	left-to-right
?:	Ternary conditional	right-to-left
= += -= *= /= %= &= ^= = <<= >>=	Assignment Addition/subtraction assignment Multiplication/division assignment Modulus/bitwise AND assignment Bitwise exclusive/inclusive OR assignment Bitwise shift left/right assignment	right-to-left
,	Comma (separate expressions)	left-to-right

Como fazer um programa

1. `nano hello.c`
2. `gcc -o hello hello.c -lcc50`
3. `./hello`



X





ubuntu

to be continued...



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