Programmation C

8 - Les boucles



Les boucles

```
instructions

boucle( condition ) {
    instructions }

instructions
```

```
printf("Salut !\n");

boucle( condition ) {
    printf("\tBoucle\n");
    }

printf("\tBoucle\n");
}

printf("A plus !\n");

Exemple
```

boucles en C: while, do while et for

La boucle while

```
int var = 0;
while( condition )
{
    instructions
}

Structure

int var = 0;
while( var < 5 )
{
    printf("%d\n", var);
    var ++;
}</pre>
Exemple
```

La boucle do while

```
int var = 6;
do
{
    printf("%d\n", var);
    var ++;
}
while( var < 5 );

Exemple</pre>
```

La boucle for

```
for(init; condition; modification) {
    instructions
}

Structure
```

```
for(int var=0; var<5; var++)
{
    printf("%d\n", var);
}

Example
```

Exemple

```
int var = 0;

while( var < 5 )
{
    printf("%d\n", var);
    var ++;
}

Équivalent</pre>
```

Break et Continue

break: sortir de la boucle courante

```
debut
printf("debut \n");
for(int var=0; var<5; var++)</pre>
                                     fin
  if(var == 2)
    break;
  printf("%d\n", var);
printf("fin \n");
  break
```

continue: sauter a la fin de la boucle

```
debut
printf("debut \n");
for(int var=0; var<5; var++)
                                   3
  if(var == 2)
                                   fin
    continue;
  printf("%d\n", var);
printf("fin \n");
continue
```