

Exercice 1 :

```
#include <stdio.h>
int main () {

    printf("ESSTHS");
    return 0;
}
```

Exercice 1.1.2 :

```
#include <stdio.h>
int main () {
    /*
     * Instruction d'affichage d'un message sur l'ecran
     */
    printf("ESSTHS");
    return 0;
}
```

Exercice 1.1.5 :

```
#include <stdio.h>
int main () {
    printf("ESSTHS %n");
    printf("je suis en premiere annee ");
    printf("License Informatique %n");
}
```

Exercice 1.1.6 :

Retourne a la ligne

Exercice 1.2 :

```
#include <stdio.h>
int main () {
    printf("\nbonjour %0 ESSTHS");
    printf("\n Bonjour %a ESSTHS %n");
}
```

Caractere speciale	Correspondance	Caractere speciale	Correspondance
\0	NULL	\r	Carriage return
\a	ALERT	\t	Horizontal tab
\b	BACK SPACE	\v	Vertical bar
\f	Form feed	\\	\
\n	New line	\'	'

Excercice 1.3.1 :

98

1890

0

37

1

1

1

252

13

1

1

0

0

Excercice 1.3.3

```
#include <stdio.h>
int main()
{
    int a = 20, b = 5, c = -10, d = 2, x = 12, y = 15;
    printf("%d %n", (5 * x) + 2 * ((3 * b) + 4));
}
```

```

printf("%d\n", (5 * (x + 2) * 3) * (b + 4));
printf("%i\n", a == (b = 5));
printf("%d\n", a += (x + 5));
printf("%d\n", a != (c *= (-d)));
printf("%d\n", a %= d++);
printf("%d\n", a %= ++d);
printf("%d\n", (x++) * (a + c));

printf("%d\n", a = x * (b < c) + y * !(b < c));
printf("%d\n", !(x - d + c) || d);
printf("%d\n", a && b || !0 && c && !d);
printf("%d\n", (a && b) || (!0 && c)) && !d);
printf("%d\n", (a && b) || !0) && (c && (!d));
return 0;
}

```

Exercice 1.4.1

12

12 -> post- incr

14 -> pres incr

14 post-decr

12 pres-decr

12

Exercice 1.4.3

```

#include <stdio.h>
int main()
{
    int x, y, res;

    x = y = 6;
    res = x + y;
    printf("x=%i y=%i res = %i\n", x, y, res);
    res = x++ + y;

    printf("x=%i y=%i res = %i\n", x, y, res);
    res = ++x + y;
    printf("x=%i y=%i res = %i\n", x, y, res);
    res = x-- + y;
    printf("x=%i y=%i res = %i\n", x, y, res);
    res = --x + y;
    printf("x=%i y=%i res = %i\n", x, y, res);
    res = x + y;
    printf("x=%i y=%i res = %i\n", x, y, res);
}

```

Exercise 1.5

```
#include <stdio.h>
int main()
{
    int x, y;
    printf("Swapp Enter X ! \n");
    scanf("%d", &x);
    printf("Enter Y! \n");
    scanf("%d", &y);
    printf("X = %d and Y = %d \n", x, y);
    x = x * y;
    y = x / y;
    x = x / y;
    printf("X = %d and Y = %d \n", x, y);
}
```

Exercise 1.6

```
#include <stdio.h>
int main()
{
    float rayon;
    printf("Enter the R \n");
    scanf("%f", &rayon);

    float per = 2 * PI * rayon, surf = rayon * rayon * PI;

    printf("The perm is %f and the surface is %f", per, surf);
}
```

Exercise 1.7

```
#include <stdio.h>
int main()
{
    float math, algo, exam, ds, moy;
    printf("Enter the ds and the exam of math ! \n");
    scanf("%f", &ds, &exam);
    math = 0.4 * ds + 0.6 * exam;
    printf("Enter the ds and exam of algo ! \n");
    scanf("%f", &ds, &exam);
    algo = 0.4 * ds + 0.6 * exam;

    moy = (math + algo) / 2;
    printf("Th moy is : %f", moy);
}
```

Exercise 1.8

```
#include <stdio.h>
int main()
{
    char thing;
    thing = getchar();

    putchar(thing);
}
```

TP 2: 1-lead:

$$a = 2^0, b = 5, c = -12$$

$$d=2, \quad b_c=12, \quad y=15$$

$$1) (5 \times 10) + 2 \times ((3 \times 5) + 4)$$

$$\hookrightarrow (5 \times 12) + 2 \times ((3 \times 5) + 4)$$

$$c) 60 + 2(3 \times 5) + 8$$

$$\Rightarrow 60 + 30 + 8 = \underline{\underline{98}} \quad \textcircled{\checkmark}$$

$$2) (5 \times (x + 2) \times 3) \times (6 + 4)$$

$$b = \underline{\underline{5}}$$

$$[5 \times (12 \div 2) \times 3] \div (5 + 4)$$

$$= (15(12 + 2)) \times (5 + 4)$$

$$\Rightarrow (180 + 30) \times (5 + 4)$$

$$\Rightarrow 900 + 720 + 150 + 120 = \underline{\underline{1890}}$$

$$(3) \quad a_c = (b - 5) = \underline{\underline{0}}$$

$$(4) \quad a_c + = (x + 5)$$

$$= 20 + 17 = 37.$$

(V)

$$x = 12$$

$$a_c = 20$$

(5)

$$a \neq (c \cdot d = (-d))$$

$$-10 \cdot 2 = -20$$

$$\rightarrow 1$$

$$c = -10$$

$$d = 2$$

$$(6) \quad a \bmod d + +$$

$$- \quad 20 \bmod 3$$

$$\begin{array}{ccc} 6 & 6 & 6 \\ \hline 18 \end{array}$$

$$\Rightarrow \textcircled{1} -$$

$$\textcircled{7} - a \bmod d++ \rightarrow 1 \quad v$$

$$\textcircled{8} \quad (x++) \times (a + c)$$

$$= 13a + 13c$$

$$= 13 \times 37 + 13 \times 20$$

$xc = 12$
 $a = 37$
 $c = \text{the}$
 20

221

 \approx

5-

$$o_1 = x \times (b < c) + y \times ! (b < c)$$

$$\Rightarrow 13 \times (5 < 20) + 15 \times 0$$

$$\Rightarrow (13) \quad (0)$$

$$o_2 = 13$$

$$(13) \mid (x - d + c) \mid d$$

$$(13 - 2 + 20)$$

$$= (11 + 20) ! = 0$$



$$0 \sim 885 = (15)$$



-

ex 4!

$$x \leftarrow y \leftarrow 6.$$

$$Res \leftarrow 6 + 6 = 12$$

$$\text{result} \leftarrow : x=6, y=6, Res=12.$$

$$Res \leftarrow \underbrace{x++}_{7} + \underbrace{y}_{6}, Res = 12.$$

$$x = 7, y = 6.$$

$$Res \leftarrow \underbrace{++x}_{8} + \underbrace{y}_{6} \rightarrow Res = 14$$

$$Res \leftarrow \underbrace{x--}_{7} + \underbrace{y}_{6}, Res = 2$$

$$Res \leftarrow \underbrace{--x}_{6} + \underbrace{y}_{6}, Res = 12$$

$$res \leftarrow \frac{14}{6} + \frac{4}{6}, \quad res = 12$$

—

