

Langage C

TD 0



`#include<stdio.h>`

EXERCICE 2

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

int main()
{
    int a=2;
    int b=5;
    double x;
    x=-a/b;

    printf("a = %d \t b = %d \n",a,b);
    printf("la solution de a*x + b= 0 est : %lf\n",x);

    return 0;
}
```

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}

```

BLOC D'INSTRUCTIONS (vertical bar on the left, arrows pointing to the main function block)

INDENTATION (vertical bar on the left, pointing to the indented code lines)

RESSOURCES EXTÉRIEURES (orange box pointing to the include statements)

FONCTION PRINCIPALE : main (red box pointing to the main function signature)

DÉCLARATION DES VARIABLES (orange box pointing to the variable declarations)

AFFICHAGE CONSOLE (teal box pointing to the printf statements)

FORMAT (small teal box pointing to the format strings in the printf statements)

EXERCICE 3

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

int main()
{
    int a;
    int b;

    scanf("%d",&a);

    scanf("%d",&b);

    printf("a=%d\tb=%d\n",a,b);
    printf("la solution de a*x + b= 0 est %lf:\n",-a/b);
    return 0;
}
```

EXERCICE 3

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

RESSOURCES
EXTÉRIEURES

```
int main()
{
```

FONCTION PRINCIPALE : main

```
    int a;
    int b;
```

```
    scanf("%d",&a);
```

SAISIE AU CLAVIER

```
    scanf("%d",&b);
```

```
    printf("a=%d\tb=%d\n",a,b);
```

```
    printf("la solution de a*x + b = 0 est %lf:\n",-a/b);
```

```
    return 0;
```

```
}
```

BLOC D'INSTRUCTIONS

INDENTATION

EXERCICE 3

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

RESSOURCES
EXTÉRIEURES

```
int main()
{
```

FONCTION PRINCIPALE : main



Une seule fonction
main par projet

```
int a;
int b;
```



Symbole & devant les variables

```
scanf("%d",&a);
```

SAISIE AU CLAVIER

```
scanf("%d",&b);
```

```
printf("a=%d\tb=%d\n",a,b);
```

```
printf("la solution de a*x + b = 0 est %lf:\n",-a/b);
```

```
return 0;
```

```
}
```

BLOC D'INSTRUCTIONS

INDENTATION

EXERCICE 3

```

#include <stdio.h>
#include <stdlib.h>

int main()
{
    int a;
    int b;

    scanf("%d",&a);
    scanf("%d",&b);

    printf("a=%d\tb=%d\n",a,b);
    printf("la solution de a*x + b= 0 est %lf:\n",-a/b);
    return 0;
}

```



Manque de **lisibilité**
pour l'utilisateur
lors de l'exécution

SAISIE AU CLAVIER

EXERCICE 3

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

int main()
{
    int a;
    int b;
    printf("Veuillez saisir un premier entier a : \n");
    scanf("%d",&a);
    printf("Veuillez saisir un second entier b : \n");
    scanf("%d",&b);

    printf("a=%d\tb=%d\n",a,b);
    printf("la solution de a*x + b= 0 est %lf:\n",-a/b);
    return 0;
}
```

AJOUT D'UN MESSAGE



Manque de **lisibilité**
pour l'utilisateur
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EXERCICE 4

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

int main()
{

    int a = 86;
    int b = 0x56;
    int c = 0b01010110;

    char d;

    printf("a = %d, b = %d, c = %d \n", a, b, c);
    printf("a = %lf, b = %lf, c = %lf \n", a, b, c);
    printf("a = %c, b = %c, c = %c \n", a, b, c);

    d = 3 * a;
    printf("a (%d) * 3 = %d \n", a, d);

    return 0;
}
```

EXERCICE 5

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

int main()
{
    int a = 86;

    char d;

    /* BLOC 1 */
    d = (a & 0b001000100);
    printf("Opérateur & : d = %d \n", d);
    d = (a && 0b001000100);
    printf("Opérateur && : d = %d \n", d);
    d = (a && 0);
    printf("Opérateur && : d = %d \n", d);
}
```

EXERCICE 5

```
int main()
{
    int a = 86;

    char d;

    /* BLOC 2 */
    d = a & 0x01;
    printf("d = %d \n", d);
    a = 87;
    d = a & 0x01;
    printf("d = %d \n", d);
}
```

EXERCICE 5

```
int main()
{
    int a = 86;

    char d;

    /* BLOC 3 */
    printf("Saisissez un nombre entre 0 et 10 \n");
    scanf("%hd", &a);
    printf("Vous avez saisi le nombre %d \n", a);
    d = a & 0x01;
    if(d == 1){
        printf("Il est impair \n");
    }
    else{
        printf("Il est pair \n");
    }

    return 0;
}
```