



INSTITUT DE TECHNOLOGIE DU CAMBODGE

ASSIGNMENT TP4 ALGORITHM AND PROGRAMMING

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Ex1:

Ex2:

Ex3:

```
TP4 > C Ex3.c > 分 main()
             main(){
                    int n1,n2,n3,n4,n5,n6,n7,minimum;
                     printf("Please Input the first number: ");
                   scanf("%d",&n1);
printf("Please Input the second number: ");
                   scanf("%d",&n2);
printf("Please Input the third number: ");
                    scanf("%d",&n3);
                    printf("Please Input the fourth number: ");
                    scanf("%d",&n4);
printf("Please Input the fifth number: ");
                     scanf("%d",&n5);
                    printf("Please Input the sixth number: ");
scanf("%d", &n6);
printf("Please Input the seventh number: ");
scanf("%d", &n7);
                    minimum=n1;
                    if (minimum>n1){
    minimum=n1;
                    if (minimum>n2){
                                                                                                                                                                                                                                    \triangleright C/C++ Compile Run - TP4 ~+~\vee~ \square
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
cd "/Users/macbookair/Desktop/algorithm&programming/TP4"
./"EX3"
macbookair@MacBookAirs-Air algorithm&programming % cd "/Users/macbookair/Desktop/algorithm&programming/TP4"
macbookair@MacBookAirs-Air TP4 % ./"EX3"
Please Input the first number: 1
Please Input the second number: 2
Please Input the third number: -4
Please Input the fourth number: -5
Please Input the fifth number: -5
Please Input the seventh number: -3
```

Ex4:

```
TP4 > C Ex4.c > 🗘 main()
          #include<math.h>
         int main (){
               printf("Enter Your value of a:" );
               scanf("%d", &a);
printf("Enter Your value of b:" );
               scanf("%d", &b);
               printf("Enter Your value of c:" );
               scanf("%d",&c);
               delta = b*b - 4*a*c;
               if(delta>0){
                    x1= (-b+sqrt(delta))/(2*a);
x2= (-b-sqrt(delta))/(2*a);
                    printf("x1=%.1f ,x2=%.1f", x1,x2);
               }else if (delta==0){
                  x1=x2 = (-b/(2*a));
                     printf("x1=x2 = %.1f", x1);
                     printf("The equation have no roots");
 PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                                                                                                                       \supset C/C++ Compile Run - TP4 + \lor \square \stackrel{.}{\square} ^{\wedge} \times
cd "/Users/macbookair/Desktop/algorithm&programming/TP4"
./"Ex4"
macbookair@MacBookAirs-Air algorithm&programming % cd "/Users/macbookair/Desktop/algorithm&programming/TP4"
macbookair@MacBookAirs-Air TP4 % ./"Ex4"
Enter Your value of a:1
Enter Your value of b:4
Enter Your value of c:3
x1=-1.0 ,x2=-3.0%
```

Ex5:

```
TP4 > C Ex5.c > ♥ main()
           main(){
                 char gender;
                  char name[20];
                 float salary,tax;
                 printf("Input your gender(M/F) : "); scanf("%c",&gender);
printf("Input your name : "); scanf("%s",&name);
printf("Input your salary($) : "); scanf("%f",&salary);
                  if (gender=='M'|gender=='m'){
                        if (salary>300){
                              tax=(salary/100.0)*10;
                        else if (salary>=200){
                              tax=(salary/100.0)*5;
                              tax=0;
 PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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cd "/Users/macbookair/Desktop/algorithm&programming/TP4"
./"EXS"
macbookair@MacBookAirs-Air algorithm&programming % cd "/Users/macbookair/Desktop/algorithm&programming/TP4"
macbookair@MacBookAirs-Air TP4 % ./"Ex5"
Input your gender(MrF) : F
Input your name : Dara
Input your salary($) : 280
Hi Dara, based on your given information, the tax salary that you need to pay is: 8.40 USD. Final salary to received is: 280.00 − 8.40 = 271.60€
```