Tri

November 12, 2019 3:13 PM

Tri général

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
   int tab[] = {7,3,1,9,-5,7,5,5,7,4};
   int nbElem = sizeof(tab)/*nombre d'octet*// sizeof(int);
   for(int i = 0; i< nbElem; i++){
      for(int j=0; j<nbElem-1; j++){
         if(tab[j]> tab[j+1]){
            int temp = tab[j+1];
            tab[j+1] = tab[j];
            tab[j] = temp;
         }
      }
   }
   for(int i = 0; i< nbElem; i++){
      printf("%d ", tab[i]);}
   printf("\n");
    printf("HELLO WORLD");
   return 0;
}
```

Sortie:

```
-5 1 3 4 5 5 7 7 7 9
HELLO WORLD
Process returned 0 (0x0)   execution time : 0.075 s
Press any key to continue.
```

Tri + 2nd plus grand chiffre

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
   int tab[] = {7,3,1,9,-5,7,5,5,7,4};
   int nbElem = sizeof(tab)/*nombre d'octet*// sizeof(int);
   for(int i = 0; i< nbElem; i++){
      for(int j=0; j<nbElem-1; j++){
         if(tab[j]> tab[j+1]){
            int temp = tab[j+1];
            tab[j+1] = tab[j];
            tab[j] = temp;
         }
      }
   }
   for(int i = 0; i< nbElem; i++){
      printf("%d ", tab[i]);}
      printf("\n");

   printf("%d ", tab[nbElem-2]);
   printf("\n");
    printf("HELLO WORLD");
   return 0;
}
```

Sortie:

```
-5 1 3 4 5 5 7 7 7 9
7
HELLO WORLD
Process returned 0 (0x0)   execution time : 0.069 s
Press any key to continue.
```

M. Way

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
   int tab[] = {7,3,1,9,-5,7,5,5,7,4, 8};
   int nbElem = sizeof(tab)/*nombre d'octet*// sizeof(int);
   for(int i = 0; i< nbElem; i++){
      for(int j=0; j<nbElem-1; j++){
         if(tab[j]> tab[j+1]){
            int temp = tab[j+1];
            tab[j+1] = tab[j];
            tab[j] = temp;
         }
      }
   }
   for(int i = 0; i< nbElem; i++){
      printf("%d ", tab[i]);}
   int secondLargestELem = tab[nbElem -1];/*plus grand élément moins 1*/
   for(int i = nbElem -1; i>=0; i--)
   {
      if(tab[i] < secondLargestELem){
         secondLargestELem = tab[i];
         break;
      }
   }
    printf("\nsecondLargestElem = %d\n", secondLargestELem);
   return 0;
}
```

Sortie:

```
-5 1 3 4 5 5 7 7 7 8 9

secondLargestElem = 8

Process returned 0 (0x0)   execution time : 0.120 s
Press any key to continue.
```

M. Way + position

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
   int tab[] = {0,7,9,3,1,9,8,-5,5,5,7,4,18};
   int nbElem = sizeof(tab)/*nombre d'octet*// sizeof(int);
   for(int i = 0; i< nbElem; i++){
      for(int j=0; j<nbElem-1; j++){
         if(tab[j]> tab[j+1]){
            int temp = tab[j+1];
            tab[j+1] = tab[j];
            tab[j] = temp;
         }
      }
   }
   for(int i = 0; i< nbElem; i++){
      printf("%d ", tab[i]);}

   int secondLargestELem = tab[nbElem -1];/*plus grand élément moins 1*/
   int position;
   for(int i = nbElem -1; i>=0; i--)
   {
      if(tab[i] < secondLargestELem){
         secondLargestELem = tab[i];
         position = i;
         break;
```