



Chapitre 06 : Les différents types de tri

Niveau: 1Cinfo1

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Commission
des Titres d'Ingénieur



Plan

- Tri par Sélection
- Tri à Bulles
- Tri par Insertion



Tri par Sélection



n = 4

8	2	10	1
---	---	----	---

```

for (i=0; i<n-1; i++)
{
    min=i;
    /* min recherche */
    for (j=i+1; j<n; j++)
        if (T[j]<T[min])
            min=j;

    tampon=T[i];
    T[i]=T[min];
    T[min]=tampon;
}

```

Etape 1:

i = 0; min = 0;

Etape 1:

J = 1;

8	2	10	1
---	---	----	---

T[min] T[j]

min = 1

Etape 2:

J = 2;

8	2	10	1
---	---	----	---

T[min] T[j]

min = 1

Etape 3:

J = 3;

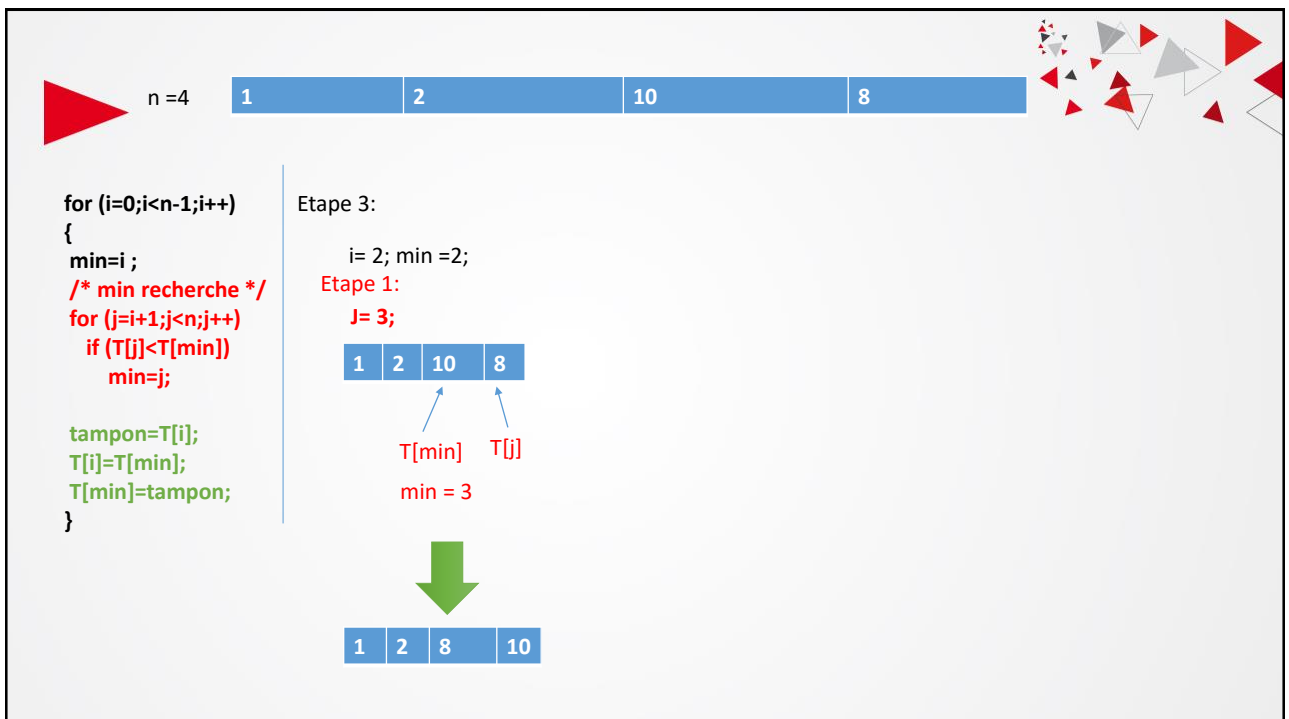
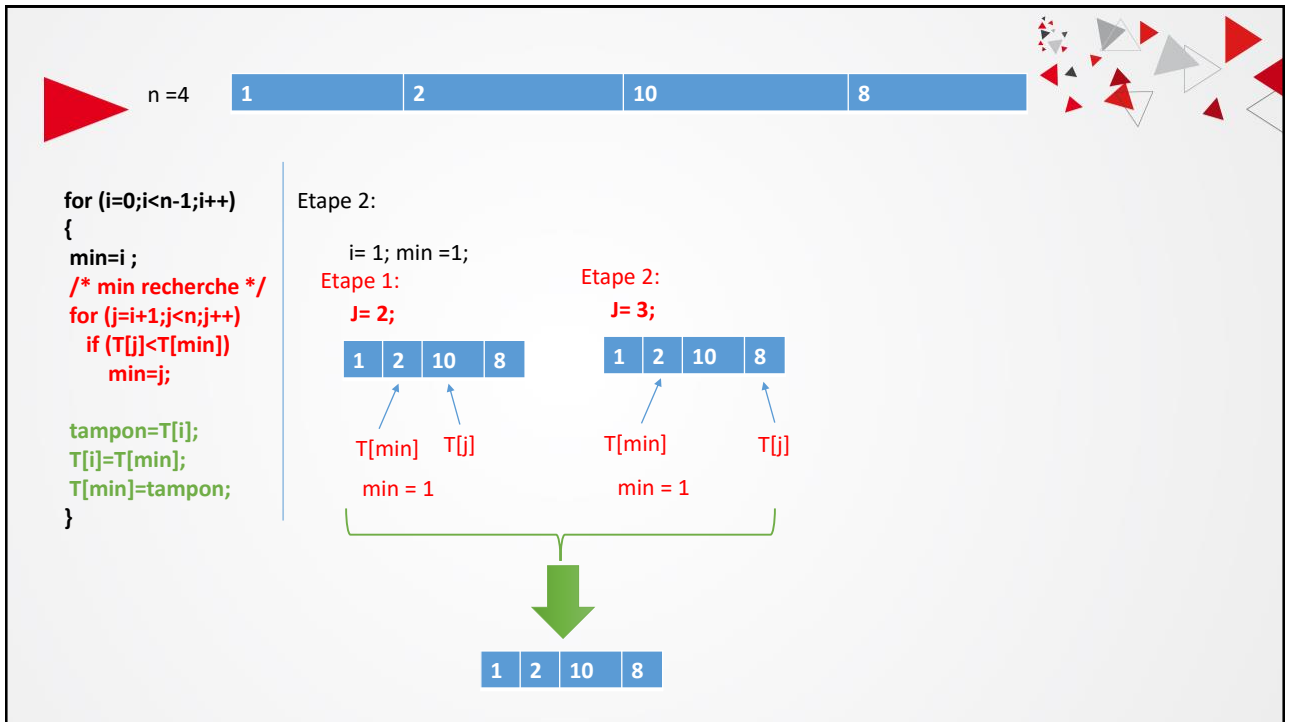
8	2	10	1
---	---	----	---

T[min] T[j]

min = 3



1	2	10	8
---	---	----	---



Tri à Bulles



n = 4

8	2	10	1
---	---	----	---

```

for (i=n-1;i>0;i--)
{
  for (j=1;j<=i;j++)
    if (T[j-1]>T[j])
    {
      tampon=T[j-1];
      T[j-1]=T[j];
      T[j]=tampon;
    }
}

```

Etape 1:

i = 3;

Etape 1:

J = 1;

8	2	10	1
---	---	----	---

T[j-1]

T[j]



2	8	10	1
---	---	----	---

Etape 2:

J = 2;

2	8	10	1
---	---	----	---

T[j-1]

T[j]



2	8	10	1
---	---	----	---

Etape 3:

J = 3;

2	8	10	1
---	---	----	---

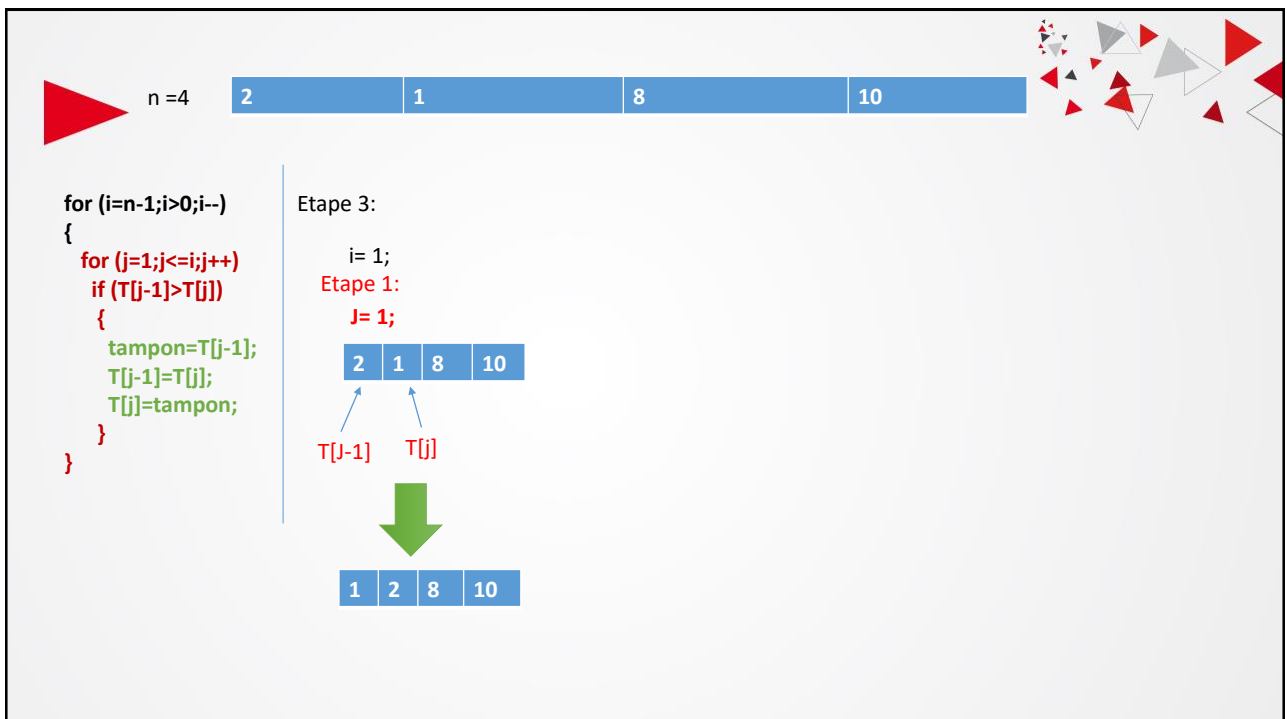
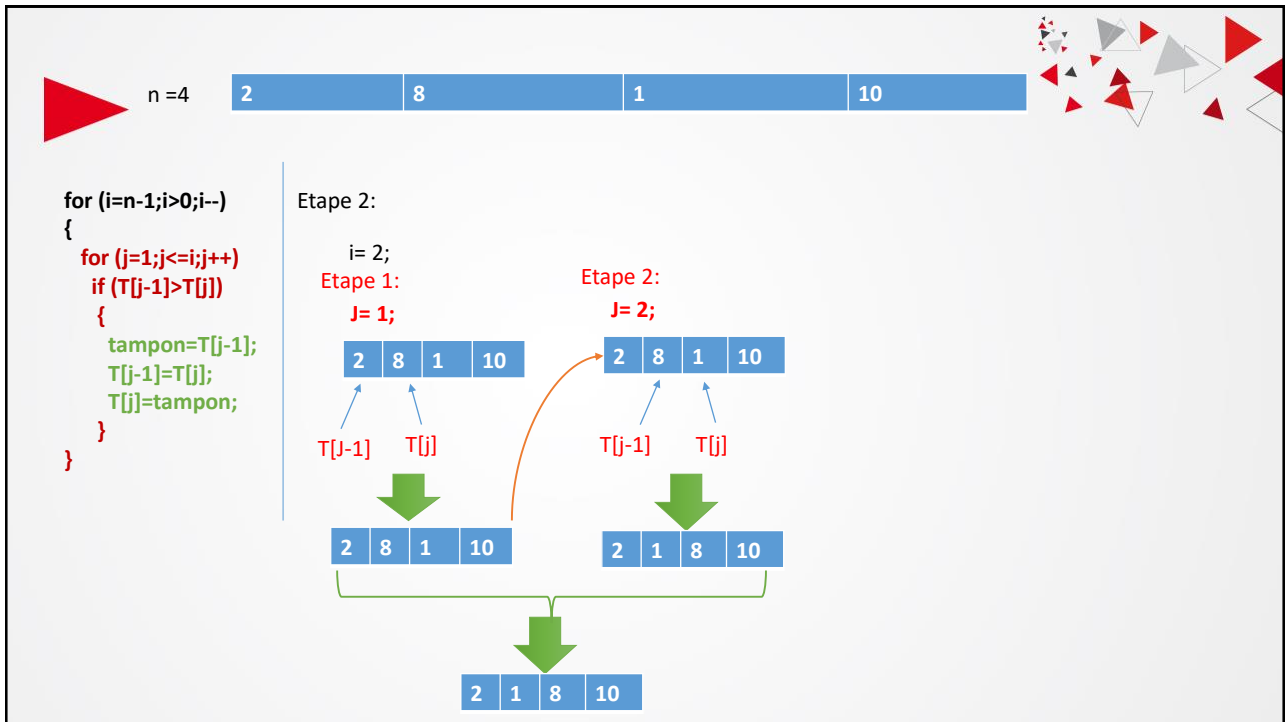
T[j-1]

T[j]



2	8	1	10
---	---	---	----

2	8	1	10
---	---	---	----



Tri par Insertion

