## **Selection Sort**

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- in the i(th) iteration, i(th) smallest element is placed in the correct location

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```
#include<stdio.h>
int main()
     int n,i,j,min,t;
     scanf("%d",&n);
     int a[n];
     for(i=0; i < n; i++)
          scanf("%d",&a[i]);
     }
     for(i=0; i \le n-2; i++)
          min = i;
          for(j=i; j \le n-1; j++)
               if(a[j] \le a[min])
                    min = j;
          t = a[i];
          a[i] = a[min];
          a[min] = t;
     }
     for(i=0; i < n; i++)
          printf("%d ",a[i]);
```