# Maximum and minimum of an array using minimum number of comparisons

```c
#include<stdio.h>

int main()
{
    int N,i,j,t,max,min;
    printf("Size of array: ");
    scanf("%d",&N);
    int a[N];
    for(i=0;i<N;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<N;i++)
    {
        for(j=i+1;j<N;j++)
        {
        if(a[i]<a[j])
            {
            t=a[i];
            a[i]=a[j];
            a[j]=t;


            }
        }
    }
    max=a[0];
    min=a[N-1];
    printf("Minimum element is: %d\n",a[N-1]);
    printf("Maximum element is: %d\n",a[0]);
}
```