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//B20CS1130
//Experiment 1
//Fork and Asc Desc

#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include<unistd.h>

void main(){
int n,i,j,temp;
printf("Enter number of elements:");
scanf("%d",&n);
printf("Enter %d elements:\n",n);
int arr[n];
for(i=0;i<n;i++){
        scanf("%d",&arr[i]);
}
pid_t pid=fork();
if(pid>0){      //parent
        //ascending
        for(i=0;i<n-1;i++){
                for(j=0;j<n-i-1;j++){
                        if(arr[j]>arr[j+1]){
                                temp=arr[j];
                                arr[j]=arr[j+1];
                                arr[j+1]=temp;
        }       }       }
        printf("\nParent process\nIn ascending order:\n");
        for(int i=0;i<n;i++){
                printf("%d\t",arr[i]);
        }
        printf("\n");
}
else if(pid==0){        //child
        //descending
        for(i=0;i<n-1;i++){
                for(j=0;j<n-i-1;j++){
                        if(arr[j]<arr[j+1]){
                                temp=arr[j];
                                arr[j]=arr[j+1];
                                arr[j+1]=temp;
        }       }       }
        printf("\nChild process\nIn descending order:\n");
```

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        for(int i=0;i<n;i++){
                printf("%d\t",arr[i]);
        }
        printf("\n");
}
else{
        printf("ERROR!!\n");
}
}

/*
OUTPUT
s6cs130@comp62:~/print$ gcc 1.fork.c
s6cs130@comp62:~/print$ ./a.out
Enter number of elements:5
Enter 5 elements:
14
36
58
43
65

Parent process
In ascending order:
14      36      43      58      65

Child process
In descending order:
65      58      43      36      14
*/
```