#include <stdio.h>

#include <stdlib.h>

#include <unistd.h> #include <string.h> void main(int argc, char \*argv[])

{

int val[10],ele; pid\_t pid; char\* cval[10]; char \*newenviron[] = {NULL }; int i,j,n,temp; printf("\nEnter the size for an array: ");

scanf("%d",&n); printf("\nEnter %d elements: ", n);

for(i=0;i<n;i++)

scanf("%d",&val[i]); printf("\nEntered

elements are: ");

for(i=0;i<n;i++) printf("\t%d",val[i]);

for(i=1;i<n;i++)

{

for(j=0;j<n-1;j++)

{

if(val[j]>val[j+1])

{

temp=val[j];

val[j]=val[j+1];

val[j+1]=temp;

}

}

}

printf("\nSorted elements are: "); for(i=0;i<n;i++) printf("\t%d",val[i]);

printf("\nEnter element to search: "); scanf("%d",&ele); val[i] = ele; for (i=0; i < n+1; i++) { char a[sizeof(int)];

snprintf(a, sizeof(int), "%d", val[i]); cval[i] = malloc(sizeof(a));

strcpy(cval[i], a);

}

cval[i]=NULL; pid=fork();

printf("\nstart process and its child process ID is :%d and parent id is: %d", getpid(),

getppid());

if(pid==0)

{

execve(argv[1], cval, newenviron); perror("Error in execve call...");

}

}

**Code: Child code**

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

int main(int argc, char \*argv[],char \*en[])

{ int i,j,c,ele; int arr[argc];

for (j = 0; j < argc-1; j++)

{

int n=atoi(argv[j]);

arr[j]=n;

}

ele=atoi(argv[j] ); i=0; j=argc-1; c=(i+j)/2;

while(arr[c]!=ele && i<=j)

{

if(ele > arr[c]) i = c+1; else j = c-1; c = (i+j)/2;

} if(i<=j)

printf("\nElement Found in the given Array...!!!\n");

else

printf("\nElement Not Found in the given Array...!!!\n");

}