Code :  
  
#include <stdio.h>

void Read\_Array (int \*ptr ,int size) { //1

for (int i = 0 ; i < size ; i++) {

scanf("%d" ,(ptr + i));

}

}

void Display\_Array (int \*ptr ,int size) { //2

for (int i = 0 ; i < size ;i++) {

printf("%d ,",\*(ptr + i) );

}

printf("\n");

}

int Max (int \*ptr ,int size) { //3

int max = \*ptr ;

for (int i = 0 ; i < size ;i++) {

if (\*(ptr + i) > max) {

max = \*(ptr + i) ;

}

}

return max ;

}

int Search (int \*ptr ,int size ,int key ) { //4

for (int i = 0 ; i < size ;i++) {

if (\*(ptr + i) == key) {

return i ;

}

}

return 0 ;

}

void Reverse\_Array (int \*ptr ,int size) { //5

int ptr1 = 0 ;

int ptr2 = size - 1;

while (ptr1 < ptr2) {

int temp = \*(ptr + ptr1) ;

\*(ptr + ptr1) = \*(ptr + ptr2) ;

\*(ptr + ptr2) = temp ;

ptr1++;

ptr2--;

}

}

int main (){

int size ;

printf("Enter The Size Of The Array :") ;

scanf("%d" ,&size) ;

int Array[size] ;

int \*ptr = Array ;

int Option ;

int key ;

do{

printf("\*\*\*\*Menu\*\*\*\* \n") ;

printf("1 -> Read\_Array \n") ;

printf("2 -> Display\_Array \n") ;

printf("3 -> Exit \n") ;

printf("4 -> Maximum Element \n") ;

printf("5 -> Search In Array \n") ;

printf("6 ->Reverse An Array \n") ;

printf("Enter The Option :") ;

scanf("%d" ,&Option) ;

if (Option == 5) {

printf("Enter The Value That You Want to Search :") ;

scanf("%d" ,&key) ;

}

switch (Option) {

case 1: Read\_Array (ptr ,size) ;

break ;

case 2: Display\_Array (ptr ,size) ;

break;

case 3: printf("Exited The Programm !!!");

break;

case 4 :printf("The Maximum Element In The Array Is :%d \n",Max (ptr , size) ) ;

break ;

case 5 :printf("The Element Is Peresent At Index : %d \n" ,Search (ptr,size,key)) ;

break ;

case 6 :Reverse\_Array (ptr ,size) ;

printf("Reversed And Array Check By Displaying The Array \n") ;

break ;

}

}while (Option != 3) ;

return 0 ;

}  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
Output :

  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  


