

## Practice Questions

Output 1:

- 1) enter 1 - to create a account 2 - to withdraw  
 3 - to deposit 4 - to check balance & exit  
 enter the name : Rushil a. V  
 enter the age : 19  
 enter 1 - to create a account 2 - to withdraw  
 3 - to deposit 4 - to check balance & exit  
 3  
 enter the amount - to deposit : 10000  
 enter 1 - to create a account 2 - to withdraw  
 3 - to deposit 4 - to check balance & exit  
 3

enter the amount - to deposit : 10000

enter 1 - to create a account 2 - to withdraw  
 3 - to deposit 4 - to check balance & exit  
 5

Output 2:

- a) Enter the number of strings : 4

Enter strings : Hello

Enter string 2 : Bye

Enter string 3 : World

Enter string 4 : Hi

Actual strings

Bye

Hello

Hi

World

Output 3:

- b) read n : 2

read m : 2

read the elements :

1

2

3

4) enter the key element : 2

element found at index 0 in array of 5 elements

Output : array elements are 1, 2, 3, 4, 5

5) enter a larger array : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

enter a searching to search for : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

searching found at index 0 in array of 10 elements

Output : array elements are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

5) Read n : 5

6) enter the elements of the array

array elements are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

two methods stored at + printed at 5

2

6) read n : 5, print 1st, 2nd, 3rd, 4th, 5th

array elements are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

7) enter the number to find the last occurrence : 2  
last occurrence of 2 is at 3

Output 6:

6) read n : 5, print 1st, 2nd, 3rd, 4th, 5th

6) read the elements

1

6

8

9

10

8) enter the key element : 3

element found at 3

below

8) array elements are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

5, 6, 7, 8, 9, 10

: Chromosome with name

Output 7:

9)  $\text{clrarr } n = 5$ 

read the elements of array, print them one by one.

10

11

12

13

14 search operation was a "success" finding  
enter the key element : 13 (ok, no) previous  
element found. all (ok) program "is over"

Output 8:

8) Read  $n = 5$   
enter the elements of the array from keyboard

1

9

22

62

53

62 maximum no. in array

1 minimum no. in array

24 01. program search &amp; sort a p. array

a. sp. = previous index b. last p. index xnb

ai/1/2/23

Hinduistic Solution

void swap(int \*a, int \*b);

void main()

{

int a = 10;

int b = 45;

printf("value of a and b before swapping = %d %d", a, b);

swap(a, b);

printf("swapping of two values after call by reference = %d %d in ", a, b);

}

void swap(int \*a, int \*b)

{

int temp;

temp = \*a;

\*a = \*b;

\*b = temp;

}

Output:

value of a and b before swapping = 10 45

the values of a and b after swapping = 45 10

21/12/23

#include &lt;stdio.h&gt;

#include &lt;stdlib.h&gt;

void main()

{

int \*p, \*q;

int n;

int i;

freopen ("read.in", "r", stdin);

scanf ("%d", &amp;n);

p = (int \*) malloc (n \* sizeof (int));

freopen ("enter.out", "w", stdout);

for (i = 0; i &lt; n; i++)

{

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

}

q = (int \*) calloc (n, sizeof (int));

freopen ("Enter.out", "w", stdout);

for (i = 0; i &lt; n; i++)

{

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

}

p = realloc (p, 7 \* sizeof (int));

freopen ("Enter.out", "w", stdout);

for (i = 0; i &lt; 7; i++)

{

~~scanf ("%d", p + i);~~

}

free (p);

free (q);

{}

21/12/23

Output:

scad n: 3

enter 3 elements: 2

10

3

4

enter 3 elements:

14

5

7

enter seven elements: 2 + i; 0.25 + 0.5i; 1 + 2i;

6

2

8

9

3

4

<0.25i>20.000000  
<0.5i>20.000000  
(1.25, 0) 20.000000

W.A. gethi

20.000000

i 1.25

1.25 "0.5i" given

(0, "0.5i") given

((i)) present min(\* 10i) = 0

((0, "0.5i")) given

((1.25, 0.5i)) given

((i+g, "0.5i")) given

g

((0.25, 0.25i)) called (\* 10i) = 0

((0, "0.25i")) given

((1.25, 0.25i)) given

((i+g, "0.25i")) given

((0.25, 0.25i)) called (\* 10i) = 0

((0, "0.25i")) given

((1.25, 0.25i)) given

((i+g, "0.25i")) given

((g)) given

((g)) given

21/12/23

Page

```
#include <stdio.h>
#include <stdlib.h>
#define max 5
int top = -1;
int s[max];
void push(int value);
{
    if (top == max - 1) printf("stack overflow");
    else if (top == -1) printf("stack underflow");
    else
        s[++top] = value;
}
void pop()
{
    int value;
    if (top == -1)
        printf("stack underflow");
    else
        value = s[top];
    top--;
    printf("%d is popped", value);
}
```

```
void display()
{
```

```
    if (top == -1)
```

```
        cout << "Stack is free" << endl;
```

```
    else
```

```
        cout << "Stack elements are : " ;
```

```
        for (int i = 0 ; i < top ; i++)
            cout << arr[i] << " " ;
```

```
        cout << endl ;
```

```
} void display main()
```

```
{
```

```
    int value ;
```

```
    int num ;
```

```
    cout << "Enter a number " ;
```

```
    scanf ("%d" , &num) ;
```

```
    cout << "Enter a number " ;
```

```
    scanf ("%d" , &num) ;
```

```
    push (num) ;
```

```
    cout << "Enter a number " ;
```

```
    scanf ("%d" , &num) ;
```

```
    push (num) ;
```

```
    display () ;
```

```
    getch () ;
```

```
    display () ;
```

Output :

Enter a no: 10

Enter a no: 20

Enter a no: 30

Stack is overflow can't push

Stack elements are 10 20 30

20 is popped

30 is popped

10 is popped

Stack elements are: 10, 10 is popped

Stack is underflow: can't pop

6.1  
21/12/23