1) a) int arr[10]; - Declaration of array arr which
has size 10.

b) int n = 10;
int arr2[n];
obs :- Initialization of variable n with 10
and declaring array named arr2
of size n = 10.

c) int arr[] = {10, 20, 30, 40}
Obs :- Initialization of array named arr
with values 10, 20, 30, 40.

d) int arr[6] = {10, 20, 30, 40}
Obs:- Storing 4 values 10, 20, 30, 40 in
array named arr of size 6.

e) int arr[];
obs :- Declaring array named "arr".

f) int arr[5];
arr[3/2] = 2;
obs :- It means arr[1] = 2.

g) int arr[2] = {10, 20, 30, 40, 50};
obs:- storing only 10 & 20 in array "arr".

h) int arr [2];

printf ("%d", arr [3]);

printf ("%d", arr [-2]);

obs :-   output :-   0

Garbage value

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main.c

```
 9  #include<stdio.h>
10  #include<stdlib.h>
11
12  int main()
```

input

```
M   560  97.500000
T   660  66.000000
W   590  79.250000
T   760  76.550003
F   480  98.449997
S   960  96.400002

 the reverse order is
S   960  96.400002
F   480  98.449997
T   760  76.550003
W   590  79.250000
T   660  66.000000
M   560  97.500000


...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

main.c

```c
11
12  int main()
13  {
14
15      int A[6]={560,660,590,760,480,960};
16      float B[6]={97.50,66.0,79.25,76.55,98.45,96.40};
17      char C[6]={'M','T','W','T','F','S'};
18      int sum1=0,sum2=0,avg1,avg2;
19      for(int i=0;i<6;i++)
20      {
21
22          printf("%c   %d  %f \n",C[i],A[i],B[i]);
23      }
24      printf("\n");
25      for(int i=0;i<6;i++)
26      {
27          sum1=sum1+A[i];
28          sum2=sum2+B[i];
29
30      }
31      avg1=sum1/6;
32      avg2=sum2/6;
33  printf("The weekly salary of Mr int is %d \n",sum1);
34  printf("The weekly salary of Mr float is %d \n",sum2);
35  printf("The average salary of Mr int is %d \n",avg1);
36      printf("The average salary of Mr float is %d \n",avg2);
37  return 0;
```

input

```
The weekly salary of Mr int is 4010
The weekly salary of Mr float is 512
The average salary of Mr int is 668
The average salary of Mr float is 85

...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

main.c

```c
 1  /***********************************************************
 2
 3  Welcome to GDB Online.
 4  GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,
 5  C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.
 6  Code, Compile, Run and Debug online from anywhere in world.
 7
 8  ***********************************************************/
 9  #include<stdio.h>
10  #include<stdlib.h>
11
12  int main()
13  {
14
15      int A[6]={560,660,590,760,480,960};
16      float B[6]={97.50,66.0,79.25,76.55,98.45,96.40};
17      char C[6]={'M','T','W','T','F','S'};
18
19      for(int i=0;i<6;i++)
20      {
21
22          printf("%c   %d  %f \n",C[i],A[i],B[i]);
23      }
24      printf("\n the reverse order is \n");
25      for(int i=5;i>-1;i--)
26      {
27
```

input

```
the reverse order is
S   960  96.400002
F   480  98.449997
T   760  76.550003
W   590  79.250000
T   660  66.000000
M   560  97.500000
```

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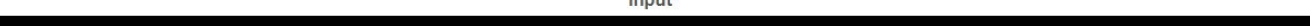
```
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main.c
12
13      char c[10]={'M','T','W','T','F','S'};
14
15      int M_int[]={560,660,590,760,480,960};
16      float M_float[]={97.50,66.0,79.25,76.55,98.45,96.40};
17      int i,j,max_float,max_int;
18
19      max_int=M_int[0];max_float=M_float[0];
20      for(i=1;i<6;i++){
21          if(M_int[i] > max_int) max_int=M_int[i];
22          if(M_float[i] > max_float) max_float=M_float[i];
23      }
24      int pos_int,pos_float;
25      for(i=0;i<6;i++){
26          if(M_int[i]==max_int);
27          pos_int=i;
28          break;
29      }
30      for(j=0;j<6;j++){
31          if(M_float[i]==max_float);
32          pos_float=j;
33          break;
34      }
35
36      printf("Mr.int party on %c and Mr.float party on %c",c[pos_int],c[pos_float]);
37      return 0;
38 }
```

```
                                                    input
Mr.int party on M and Mr.float party on M

...Program finished with exit code 0
Press ENTER to exit console.
```

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Language C

main.c

```c
 9  #include<stdio.h>
10  int main()
11  {
12  int n, a[n], num, i, count=0, attempts=0;
13  printf("enter the number of chits \n");
14  scanf("%d", &n);
15  printf("enter the numbers on chits in ");
16
17  for (i=0;i<n;i++)
18  scanf ("%d", &a[i]);
19  printf("enter the particular number to be picked \n");
20  scanf("%d", &num) ;
21
22  for (i=0;i<n;i++)
23  {
24  if (num==a[i])
25      {
26          count++;
27
28          attempts=i+1;
29      }
30  }
31  printf ("no of duplicate chits %d\n", count);
32  printf ("no of attempts is %d\n", attempts);
33  return 0;
34  }
35
```

input

```
enter the number of chits
5
enter the numbers on chits in 5 4 3 2 4
enter the particular number to be picked
2
no of duplicate chits 1
no of attempts is 4
```