Date
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Assignment-15

1.
```
#include<stdio.h>
int grt (int [ ]);
int main ( )
{
   int a [10], k;
   k = grt (a);
   printf (" Greatest element is %d", k);
   return 0;
}

int grt ( int n[ ] )
{
   int i, max = 0
   printf (" Enter 10 numbers \n" );
  for( i=0; i<= 9 ; i++ )
{
   scanf ("%d", &n[i] );
   if ( n[i] >= max)
      max = n [i ];
}
   return max;

}
```

2.
```
#include <stdio.h >
int sml (int [ ] );
int main ( )
{
   int a[10], k;
```

```
    k = sml(a);
    printf("Smallest element is %d", k);
    return 0;
}

int sml(int n[])
{
    int i, min;
    printf("Enter 10 numbers \n");
    for(i=0; i<=9; i++)
    {
        scanf("%d", &n[i])
        if(n[i]<=min)
            min = n[i];
    }
    return min;
}
```

6.

```
#include<stdio.h>
void display(int []);
int main()
{
    int a[5];
    display(a);
    return 0;
}
void display(int a[])
{
    int i, j;
```

```
printf("Enter 5 numbers \n");
for (i=0; i<=4; i++)
{
  scanf("%d", &n[i]);
}
for (j=4; j>=0; j--)
{
  printf("%d ", n[j]);
}
}
```

3.

```
#include<stdio.h>
void sort(int []);
int main()
{
int a[10];
sort(a);
return 0;
}
void sort(int n[])
{
int i, j, temp;
printf("Enter 10 numbers \n");
for(i=0; i<=9; i++)
{
  scanf("%d", &n[i]);
}
for (i=0; i<9; i++)
{
  for(j=i+1; j<10; j++)
```

```
    {
        if (a[i] > a[j])
        {
            temp = a[i];
            a[i] = a[j];
            a[j] = temp;
        }
    }
}
for(i=0; i<=9; i++)
{
  printf("%d ", a[i]);
}
```

4.

```
#include<stdio.h>
void rotate (int a[], int n, int dir, int shift);
void display (int a[], int n);
#define LEFT 0
#define RIGHT 1
int main()
{
  int a[8] = {10, 20, 30, 40, 50, 60, 70, 80};
  display (a, 8);
  printf("\n");
  rotate (a, 8, RIGHT, 2);
  display (a, 8);
  return 0;
}
void display (int a[], int n)
{
  int i;
```

```
printf("\n");
for(i=0; i<n ; i++)
  printf(" %d ", a[i]);
}

void rotate (int a[], int n, int dir, int shift)
{
  int i, temp;
 while (shift)
{
    temp = a[n-1];
  for(i=n-1; i
if (dir==RIGHT)
{
  while (shift)
{
    temp = a[n-1];
  for (i=n-1; i>=1; i--)
  {
    a[i] = a[i-1];
  }
    a[0] = temp;
      shift--;
  }
}
else
{
  while (shift)
{
    temp = a[0];
for (i=0; i<=n-2; i++)
```

```
    {
        a[i] = a[i+1];
    }
    a[n-1] = temp;
    shift--;
  }
 }
}
```

7-
```
#include <stdio.h>
int main()
{
 int i,j,a[10] = {1,10,20,1,25,1,10,30,25,13};
 for(i=0; i<10; i++)
 {
    for(j=i+1; j<10; j++)
    {
     if(a[i]==a[j])
     {
        printf("%d ", a[i]);
        break;
     }
    }
 }
}
```

As-15-8-

```
#include<stdio.h>
int main()
{
  int a[10] = { 10, 20, 30, 50, 60, 10, 10, 10, 10, 20 };
  int i, j, count=0;
  for(i=0; i<10; i++)
  {
    count=0;
    for(j=i+1; j<10; j++)
    {
      if(a[i]==a[j])
      {
        count=1;
        a[j] = NULL;
      }
    }
  }
  if(count==0 && a[i]!=NULL)
    printf("%d", a[i]);
}
```