

```
4) Find the output of the following program.
       int main()
          int n=4,i,j,sum=0;
          int a[][4]={{12,15,16,20},{4,10,2,21},{33,14,23,9},{22,43,54,6}}:
            for(j=0;j<n;j++)
               if(i==j)
                 sum = sum + a[i][j];
         printf("%d",sum);
         return 0;
       }
  5) Find the output of the following program.
      int main(){
         int n,x,count,i;
         n=68;
         \operatorname{for}(x=1;x<=n;x++)
           if(n\%x=0)
           {
              for(count=0,i=1;i<=_X;i++)
                if(x\%i=0)
                   count++;
                if(count=2)
                   printf("\t%d",x);
           }
        return 0;
 6) Find the output of the following program.
     int main(){
       int s[] = \{12, 10, 8, 6, 4, 2\};
       int f[] = \{17, 15, 11, 9, 5, 1\};
       int i=0, j=0, t=0;
       for (i = 0; i < 6; i++)
          for(j=t;j<6;j++)
            if(s[j] > f[i]){
               printf ( "%d-%d, ", f[i],s[j]);
               t=j+1;
               break;
            }
      return 0;
7) Find the output of the following program.
   int compare(int a, int b, int c){
   if(a-b>0 && a-c>0)
   return c;
   else
   if(b-c>0)
  return a;
  else
  return b;
  int main(){
     printf("%d", compare(compare(88, 89, 91), compare(90, 41, 17), compare(75, 100, 96)));
     return 0;
  }
```



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8) Find the output of the following program.
     void doAction(char *str)
       if (*str)
       {
          doAction(str+1);
          printf("%c", *str);
    int main()
       char a[] = "zoho";
       doAction(a);
       return 0;
     }
 9) Find the output of the following program.
     int main(){
     int a[10],i=0;
     for(i=0;i<10;i++)
     a[i]=9-i;
     for(i=0;i<10;i++)
     a[i]=a[a[i]];
     for(i=0;i<10;i++)
     printf("%d ",a[i]);
     return 0;
     }
10) Find the output of the following program.
     int main(){
       char *x = "Zoho123Corp45";
       int result=0,i;
       for(i=0;x[i]!='\0';i++){
          if(x[i] > = 48 \&\&x[i] < = 57)
             result=result+(x[i]-'0');
       printf("%d",result);
       return 0;
```

## Part Two:

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11) Find the output of the following program.
     void fun(int b[][3]){
       int i,j;
        for(i=0;i<3;i++){
          for(j=0;j<=i;j++)
             b[i][j]++;
     int main(){
        int i,j;
        int a[3][3] = \{22,67,17,9,32,3,58,45,36\};
        fun(a);
        for(i=0;i<3;i++)
           for(j=0;j<3;j++)
              printf("%d ",a[i][j]);
        return 0;
12) Find the output of the following program.
      int main(){
      int n,m,i,j,result=0;
      int a[][4]={\{12,15,16,8\},\{17,10,7,21\},\{33,14,23,9\},\{22,43,54,6\}\};
      n=4;
      for(i=0;i<n;i++){
         result = a[i][i];
         for(j=0;j<n;j++){
            if(i\%2=0){
              if(a[i][j]<result)
                 result=a[i][j];
            else if(a[i][j]>result)
               result=a[i][j];
         printf(" %d",result);
       return 0;
```