



Competitive Programming

CSE – 108

Lab Title: Competitive programming

Lab Report Number: 04

Submitted By:

Name: H.M.Tahsin Sheikh

ID: 22201243

Section: E-1

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Submitted To:

Sk. Tanzir Mehedi

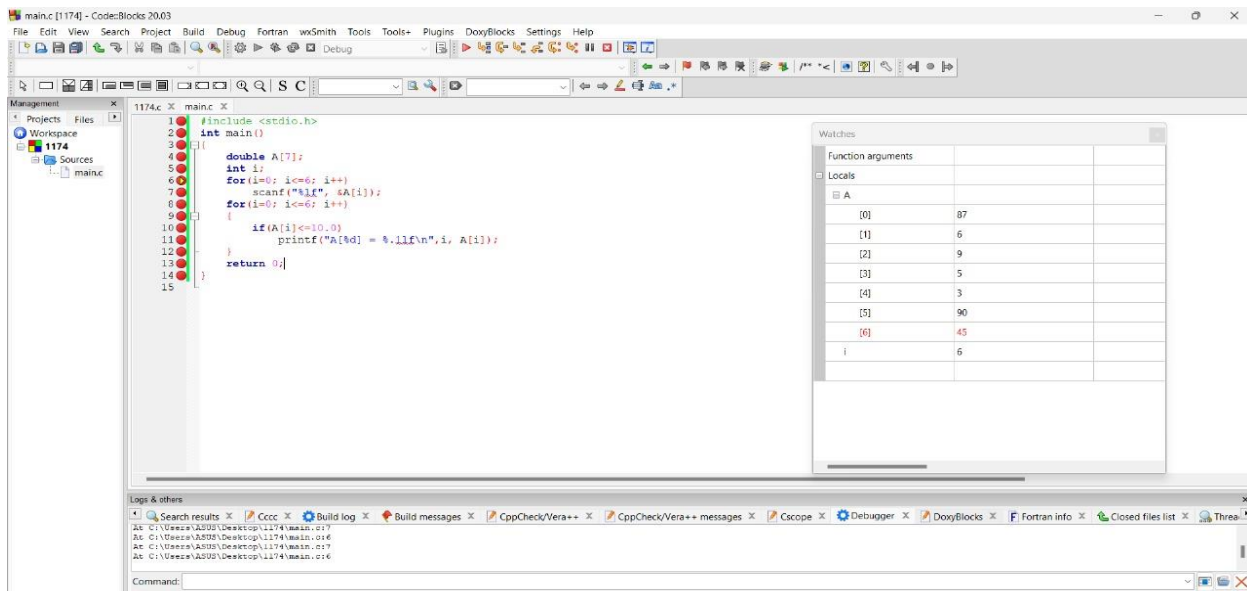
Lecturer

**Department of Computer Science
& Engineering**

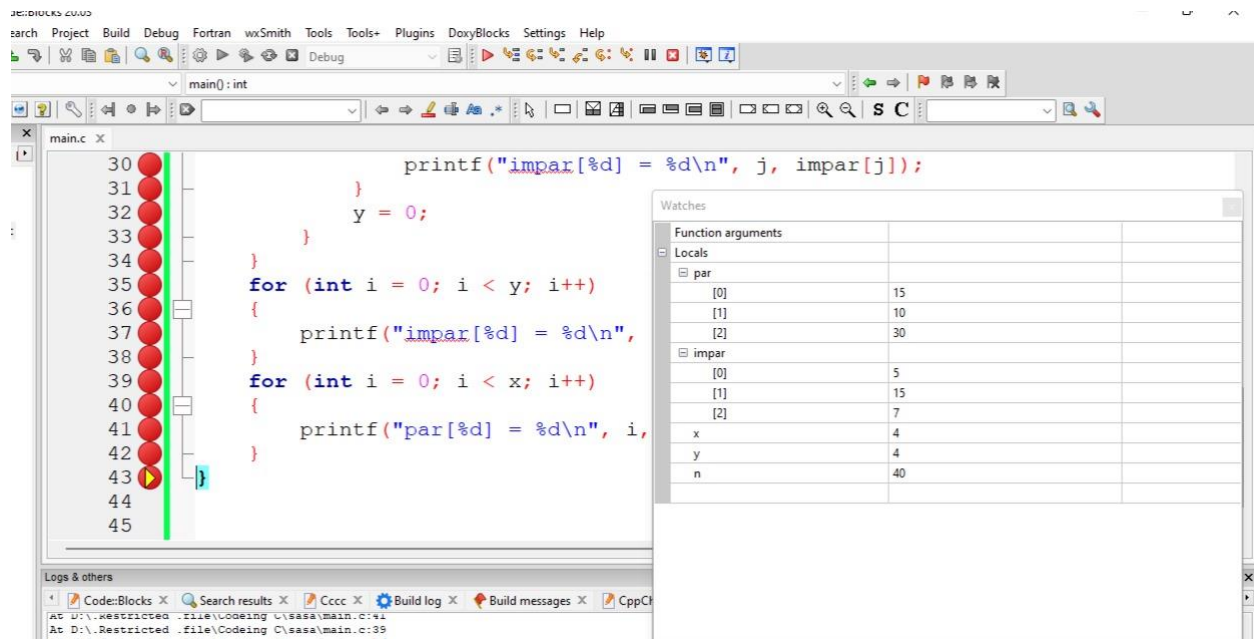
University of Asia Pacific

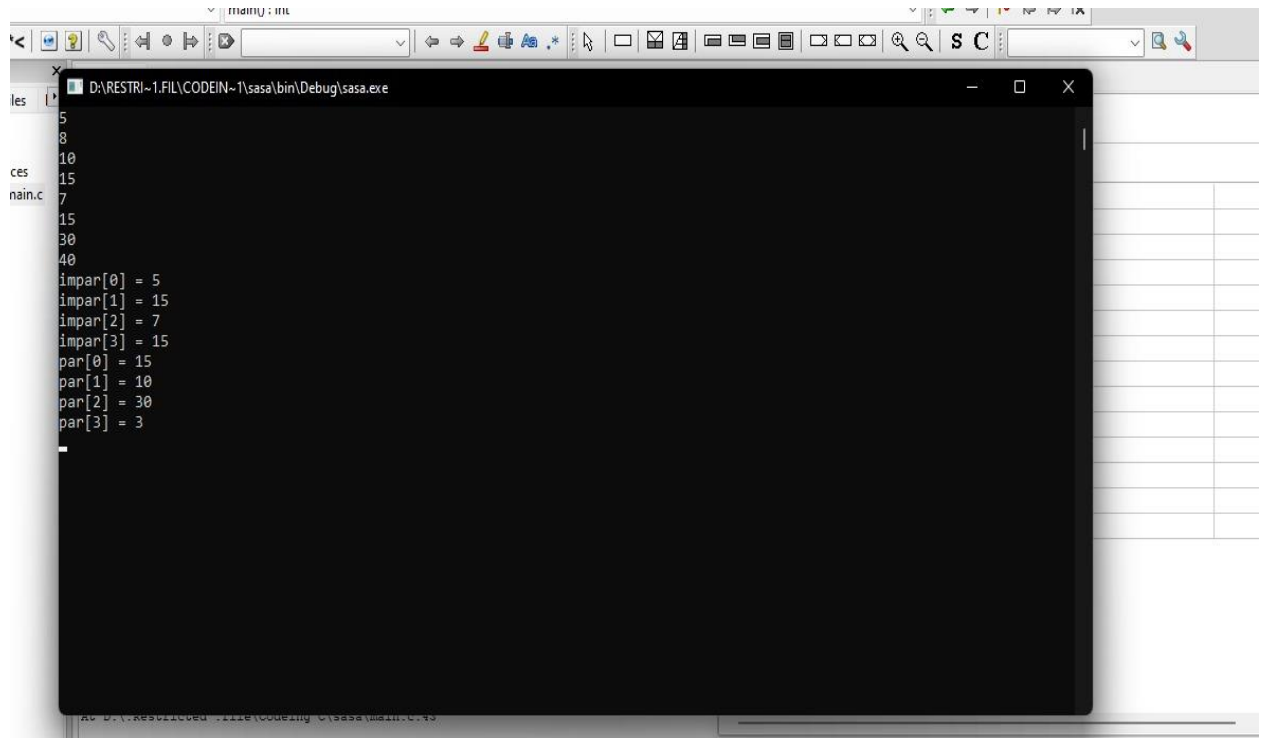
BEE Crowd Debug of Five Problems

Problem:1174

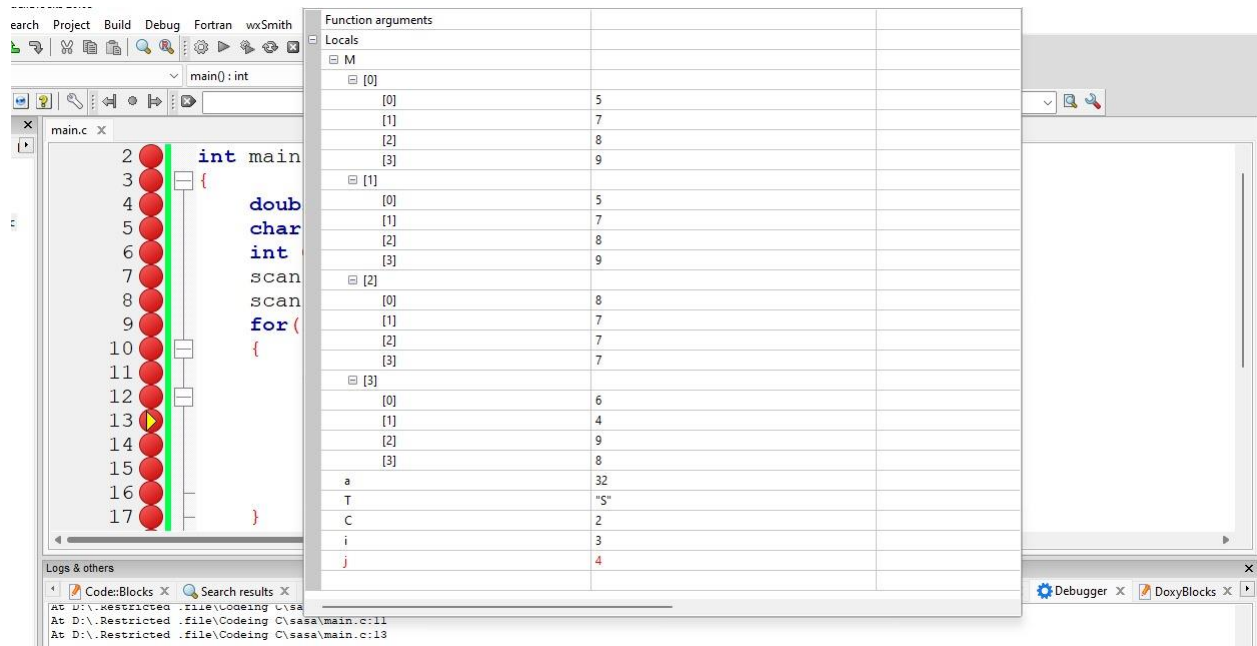


Problem:1179





Problem:1182



Problem:1257

The screenshot shows a C program in a debugger. The code is as follows:

```

1  #include<stdio.h>
2  int main()
3  {
4      int a,b,c,d,i,j,k,sum=0;
5      char x[101];
6      scanf("%d", &a);
7      while(a--)
8      {
9          scanf("%d", &b);
10         for (j=0; j<b; j++)
11         {
12             scanf("%s", &x);
13             c=strlen(x);
14             for(k=0; k<c; k++)
15             {
16                 sum=sum+(x[k]-65)+j+k;
17             }
18         }
19         printf("%d\n",sum);
20         sum=0;
21     }
22     return 0;
23 }
24

```

The 'Watches' window shows the following data:

Function arguments		
a	4	
b	2	
c	3	
j	2	
k	3	
sum	21	
x	"DDD\000\000\u=uce\fm\000\4"	

The console output shows the following values:

```

5
2
CBA
DDD
21

```

Problem:1827

The screenshot shows a C program in a debugger. The code is as follows:

```

1  #include <stdio.h>
2  int main()
3  {
4      int z;
5      while(scanf("%d", &z) != EOF)
6      {
7          int ara[z][z];
8          int a,j,b,c,d,e,f,g,x,y;
9          for(a=0; a<z; a++)
10          {
11              for(b=0; b<z; b++)
12              {
13                  ara[a][b]=0;
14              }
15              for(a=0; a<z; a++)
16              {
17                  ara[a][a]=2;
18                  d=z-1;
19                  for(a=0,b=d; a<z,b++,b--)
20                  {
21                      ara[a][b]=3;
22                      c=z/3;
23                      e=z-c-c;
24                      for(f=c,x=1; x<=e; f++,x++)
25                      {
26                          for(g=c,y=1; y<=e; g++,y++)
27                          {
28                              ara[f][g]=1;
29                          }
30                      }
31                      if(z%2==1)
32                      {
33                          j=z/2;
34                          ara[j][j]=4;
35                      }
36                      for(a=0; a<z; a++)
37                      {
38                          for(b=0; b<z; b++)
39                          {
40                              printf("%d",ara[a][b]);
41                              printf("\n");
42                          }
43                      }
44                  }
45              }
46              printf("\n");
47          }
48          return 0;
49      }
50

```

The 'Watches' window shows the following data:

Function arguments		
z	5	
ara	0x61fe38	
a	5	
j	2	
d	4	
g	4	
b	5	
e	3	
x	4	
c	1	
f	4	
y	4	

The console output shows the following values:

```

5
20003
01110
01410
01110
30002

```

THANK YOU