

NAME Solutions

SS# _____

On the right side show what is the output of this program.

```

main()
{
  int    a[5][4], b[7], *p;

  p = b;
  b[2] = 37;
  p[5] = 42;
  p = p + 2;
  p[4] = 56;
  *(p+1) = 72;
  *(b+1) = 25;

  p = a + 5;
  a[2][1] = 42;
  *(a + 3 * 4 + 2) = 37;
  *(p + 2) = 56;
  *a = 5;
  *p = 6;
}

```

a

	0	1	2	3
0	5			
1		6		56
2		42		
3			37	
4				

b

0	1	2	3	4	5	6
	25	37	72		42	56



recall that a multidimensional array is simply a sequential list of components in memory. Location $a[1][3]$ is just before location $a[2][0]$.