

6. What value is printed out by the following program?

```
#include <stdio.h>

#define SIZE 10

int zap(int A[SIZE])
{
    int i, temp;
    for (i = 0; i < SIZE; i++)
        if ( *(A + i) > *(A + i + 1) )
        {
            temp = *(A + i);
            *(A + i) = *(A + i + 1);
            *(A + i + 1) = temp;
        }
    return *(A + SIZE - 1);
}

void main()
{
    int A[SIZE] = { 2, 9, 4, 7, 3,
                   10, 1, 5, 6, 8 };
    printf("%d", zap(A));
}
```

1  
0  
1  
2  
3  
4  
5  
6  
7  
8  
9

2 4 7 3 9 1 5 6 8 10

A + 9

7. What is the output of the following program?

```
#include <stdio.h>

main()
{
    int x[4][4] = {1, 2, 3, 4,
                  5, 6, 7, 8,
                  1, 2, 3, 4,
                  5, 6, 7, 8};

    int i, j;
    int (*aptr)[4];

    aptr = &x[0]; — row 0

    if(*aptr == x[0])
        printf(" 1 ");

    if(*(aptr+3) == x[3])
        printf(" 2 ");

    if((*(aptr+2))[1] == x[2][1])
        printf(" 3 ");

    if(*(aptr+2)[1] == x[1][2])
        printf(" 4 ");

    if(*(aptr+2)+2 == x[4][0])
        printf(" 5 ");

    if(*(aptr+2)+2 == x[2][2])
        printf(" 6 ");

    if( aptr[3][1] == x[3][1])
        printf(" 7 ");

    if( *(aptr[3]+1) == x[3][1])
        printf(" 8 ");

    if( *(aptr+3)[0] == x[0][3])
        printf(" 9 ");
}
```

1 2 3 6 7 8