Strings

```
#include <stdio.h>

int main()
{
    char a[10], b[10];
    int alen, blen, i, j;

    scanf("%s",a);
    scanf("%s",b);


    for (i = 0; a[i] != '\0'; i++);    /* note the trailing ; */
    alen = i;

    for (i = 0; b[i] != '\0'; i++);    /* note the trailing ; */
    blen = i;

    char c[alen + blen];

    printf("%d %d\n", alen, blen);

    for (i = 0; i < alen; i++)
        c[i] = a[i];

    for (j = 0; j < blen; j++)
        c[i + j] = b[j];

    c[i + j] = '\0';

    char t = a[0];
    a[0] = b[0];
    b[0] = t;

    printf("%s\n", c);
    printf("%s %s", a, b);

    return 0;
}
```

Printing Tokens

```
#include <stdio.h>

int main()
{
    char s[1024];
    int i, len;
    scanf("%[^\n]", s);
```

```
    for (i = 0; s[i] != '\0'; i++);
    len = i;

    for (i = 0; i < len; i++)
    {
        if (s[i] == ' ')
            printf("\n");
        else
            printf("%c", s[i]);
    }

    return 0;
}
```

Digit Frequency

```
#include <stdio.h>

int main()
{
    char s[1024];
    int i, len, arr[10];
    scanf("%s", s);

    for (i = 0; s[i] != '\0'; i++);
    len = i;

    for (i = 0; i < 10; i++)
        arr[i] = 0;

    for (i = 0; i < len; i++)
    {
        if (s[i] >= '0' && s[i] <= '9')
        {
            arr[(int)(s[i] - '0')]++;
        }
    }

    for (i = 0; i < 10; i++)
        printf("%d ", arr[i]);

    return 0;
}
```