

2510: List of all Standard Idioms ||

▷ to Process ARRAYS

```
some type T a[N]; /* array */
           ^int
size_t i;
for (i = 0; i < N; i++) {
    /* process a[i] */
}
```

▷ to Process STRINGS

```
s_string (/* param if any */) {
    size_t i;
    for (i = 0; s[i] != '\0'; i++) {
        /* process string s */
    }
}
```

▷ to Process CMD LINE ARGS

```
int main (int argc, char *argv[]) {
    int i;
    for (i = 0; i < argc; i++) {
        /* process argv[i] */
    }
}
```

▷ to Process CHAR BY CHAR from stdch

```
int c;
while ((c = getchar()) != EOF) {
    /* process c */
}
```


... idioms continued ||

▷ to Process stdin LINE BY LINE

```
#define LINESIZE 1024
char line [LINESIZE];
while (fgets (line, LINESIZE, stdin)) {
    /* process line */
}
```

▷ to OPEN a FILE

```
FILE * fp;
if (fp = fopen (filename, mode)) == 0) {
    perror ("fopen");
    /* additional error-handling */
}
```

▷ to CLOSE a FILE

```
if (fclose (fp) != 0) {
    perror ("fclose");
    /* additional error-handling */
}
```

▷ to PROCESS an ARRAY BACKWARDS

```
T a[N];
size_t i;
for (i = N; i > 0; i--) {
    /* process a[i-1] */
}
```