FUNCTIONS IN C

Objectives

To learn the relationship of strings and pointers.

STRINGS

Array of characters
or a pointer to
characters.

Terminated by a ‘\0’.

Can hold a maximum number of characters equal to size-1.

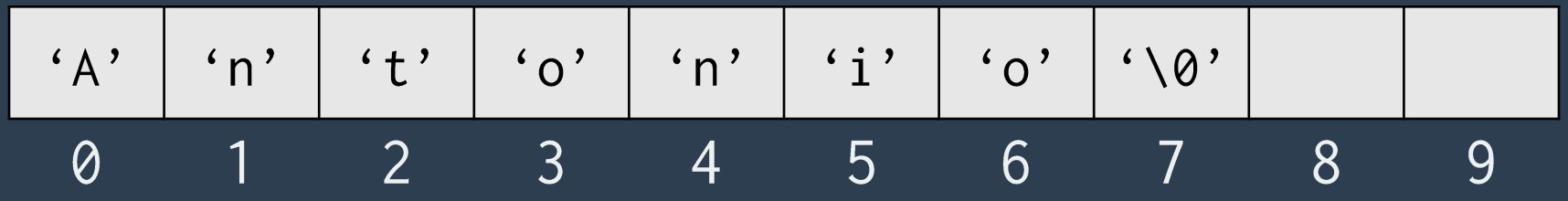
```
char var_name[size];
```

```
//allocate in the memory
//an array of size 30 char
char name[30];
```

```
//This string can hold up
//to 29 characters.
char name[30];
```

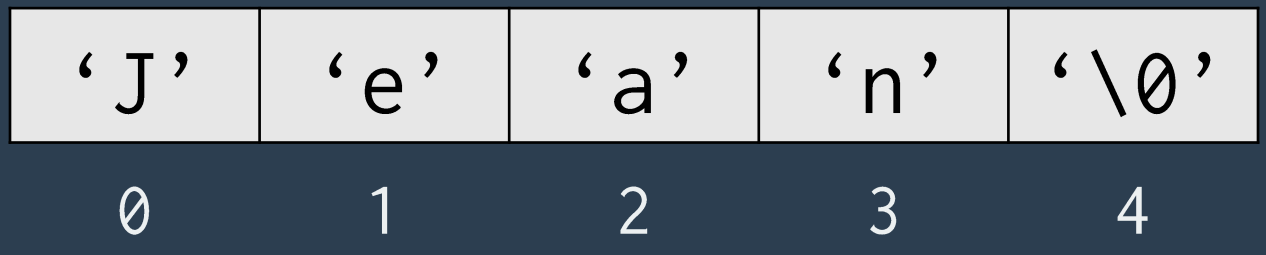
```
//The last space is reserved
//for the null terminator.
char name[30];
```

```
char nombre[10] = “Antonio”;
```

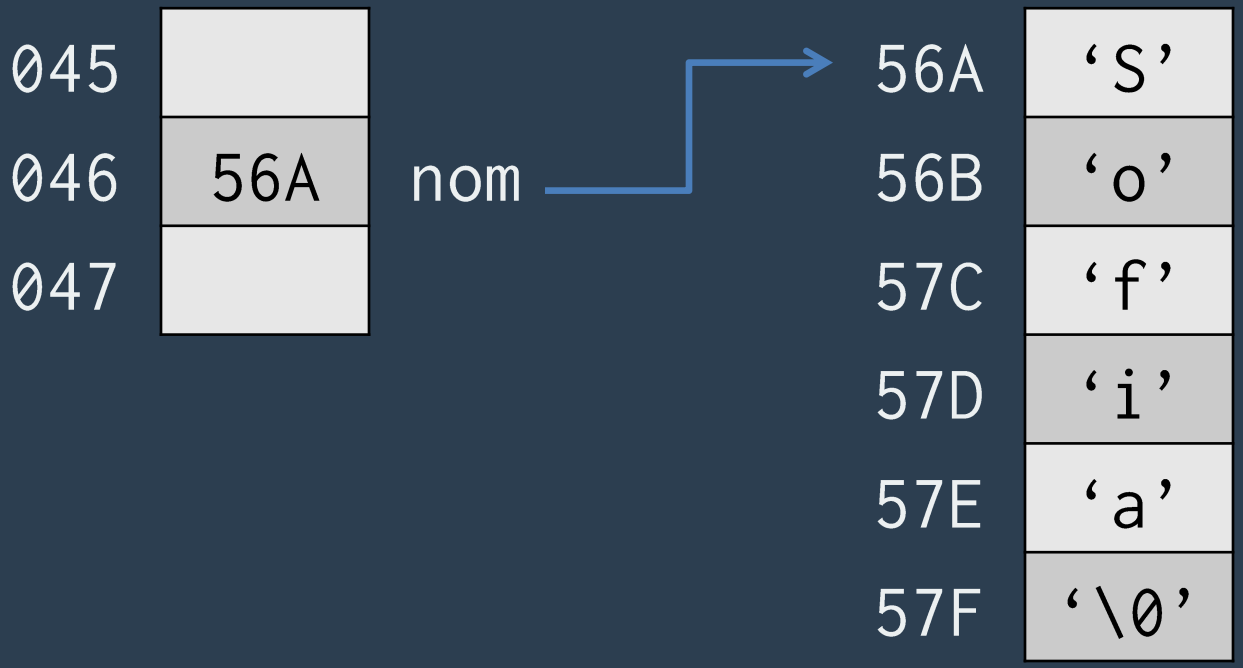


```
char namae[] = “Haruhi”;
```

```
char nom[] =
        {'J','e','a','n','\0'};
```



```
char *nom = “Sofia”;
```



Notes

```
//Are these valid?
char s[10];
char s1[];

s = “hoenn”;
s1 = “unova”;
```

```
//CORRECT WAY
char s[10];
char s1[] = unova;

strcpy(s, “hoenn”);
```

```
char *sp;
char s[10] = “kanto”;

//Are these valid?
sp = “johto”; //(1)
sp = s; //(2)
strcpy(sp, “sinnoh”); //(3)
```

```
char *sp;
char s[10] = “kanto”;

//Are these valid?
sp = “johto”; //yes
sp = s; //yes
strcpy(sp, “sinnoh”); //yes
```