

END directive

ORG directive (ORIGIN)

Atmel AT89552
has 8 KB of
ROM
0000h — 1FFFFh

.asm

ORG 0000h

... } part 1

~~ORG 0100h~~

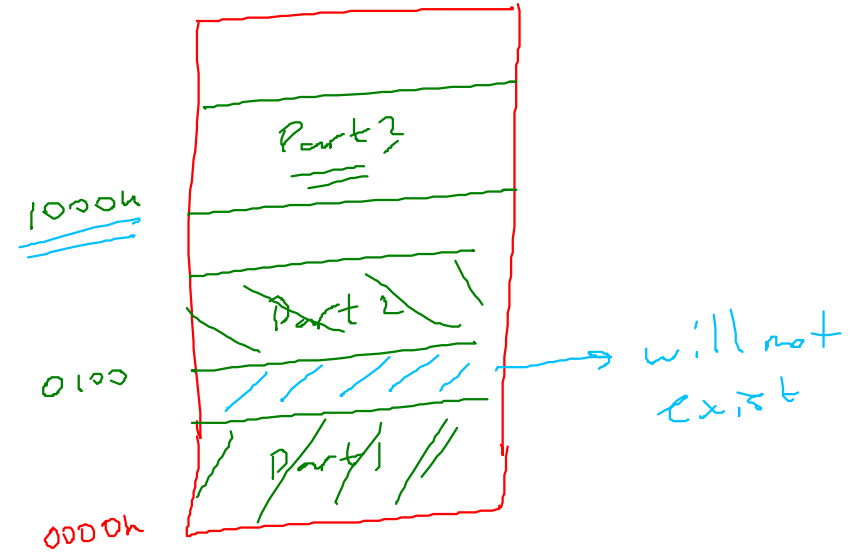
... } part 2

ORG 1000h

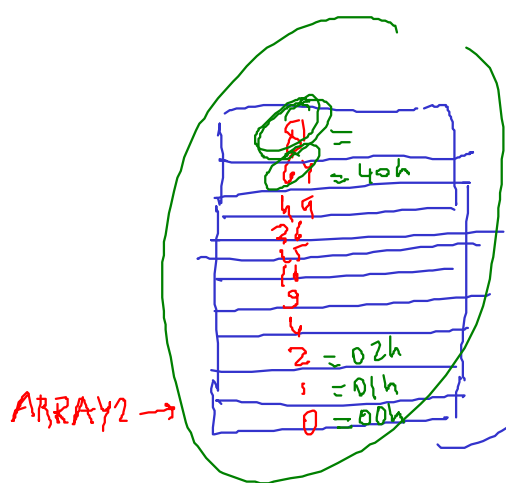
... } part 3

END

ROM



Fixed Data in the ROM

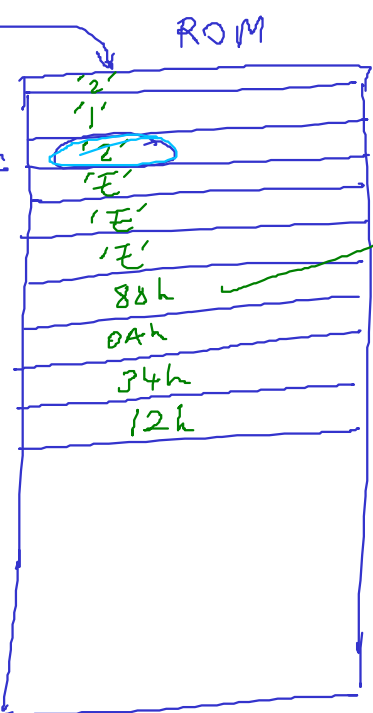


DB directive

```
ORG 1001h
DB 12h
DB 34h, 10, 10001000b
```

1005h = ARRAY1

1008h
1007h
1006h
1005h
1004h
1003h
1002h
1001h



```
ARRAY1: DB 'EEEE12'
```

```
ARRAY2: DB 00h, 01h, 04h, 09h, 16, 25, 36, 49, 64, 81
```

only form

MOV A, @A+DPTR

a = X(3)

```
MOV DPTR, #1008h
```

```
CLR A
```

```
MOV A, @A+DPTR
```

```
MOV DPTR, #ARRAY1
```

```
MOV A, #3
```

```
MOV A, @A+DPTR
```

DPTR = 1005h

A = 3

A = 32h

A+DPTR

= 1008h

```
MOV A, @DPTR
```

@3h+DPTR

MOV DPTR, #0

```
MOV DPTR, X ARRAY2
```

```
MOV A, X 6
```

```
MOV A, @A+DPTR -> A=24h
```