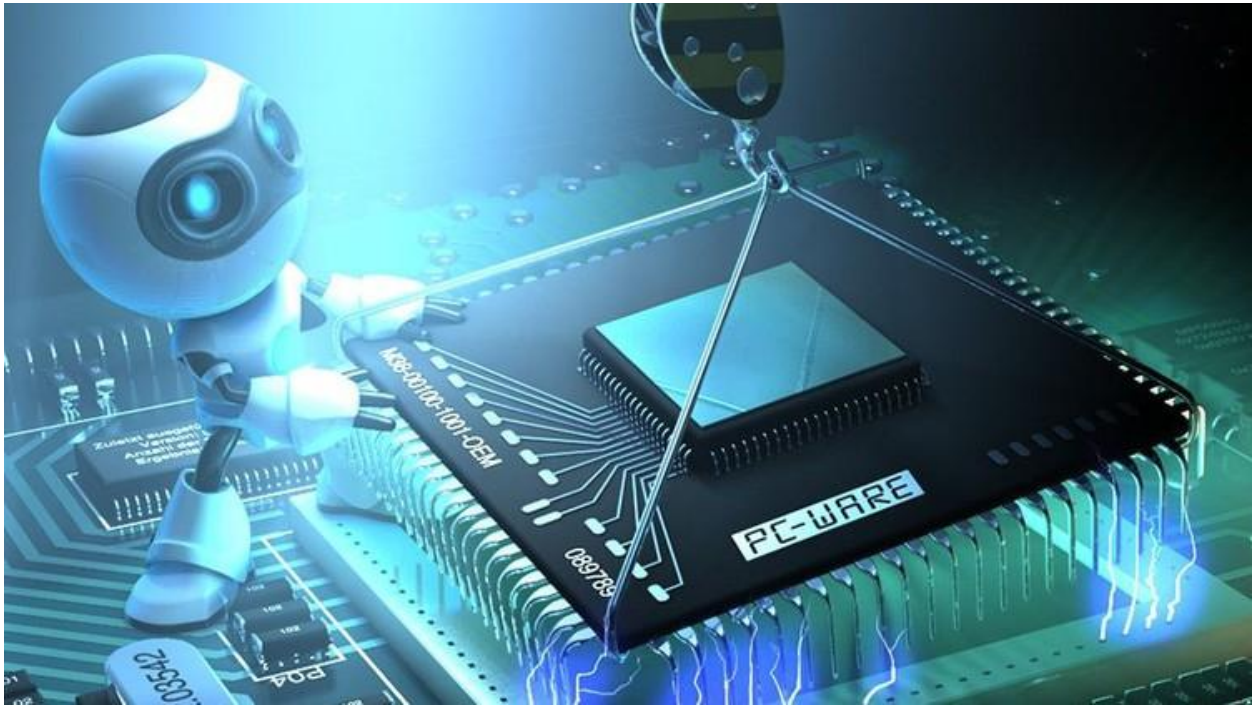
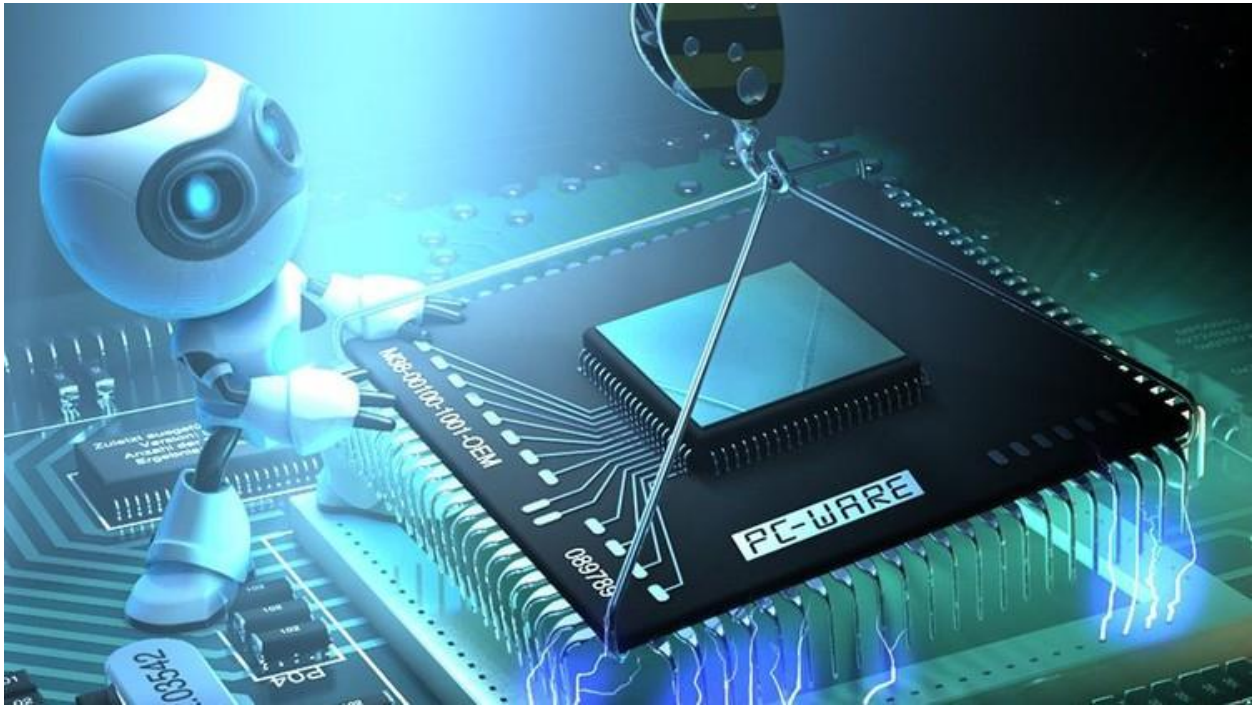
Previous Study - Problem 1



Laboratory Session 2



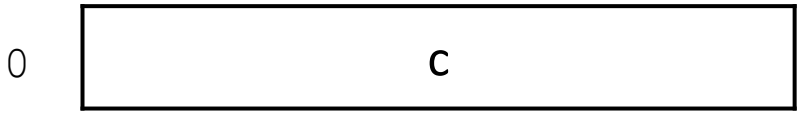
Previous Study - Problem 1

1. Draw the struct S1:

```
typedef struct {
   char c;
   int k;
   int *m;
} S1;
```

Previous Study - Problem 1

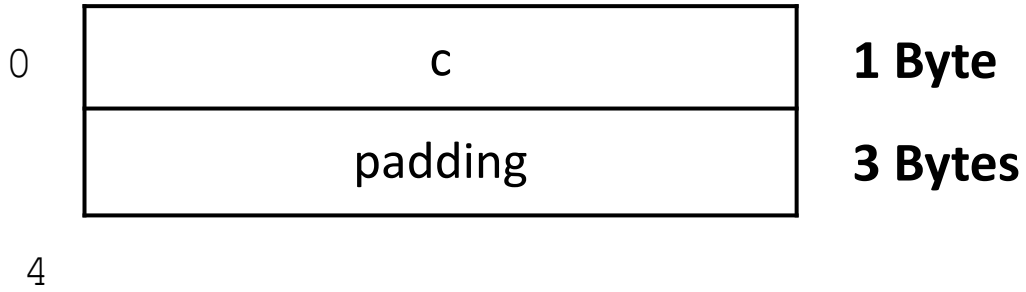
```
typedef struct {
   char c;
   int k;
   int *m;
} S1;
```



1 Byte

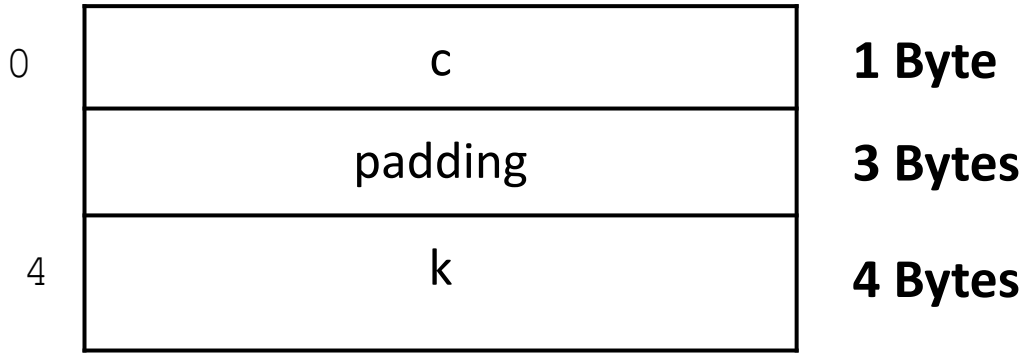
Previous Study - Problem 1

```
typedef struct {
   char c;
   int k;
   int *m;
} S1;
```



Previous Study - Problem 1

```
typedef struct {
   char c;
   int k;
   int *m;
} S1;
```



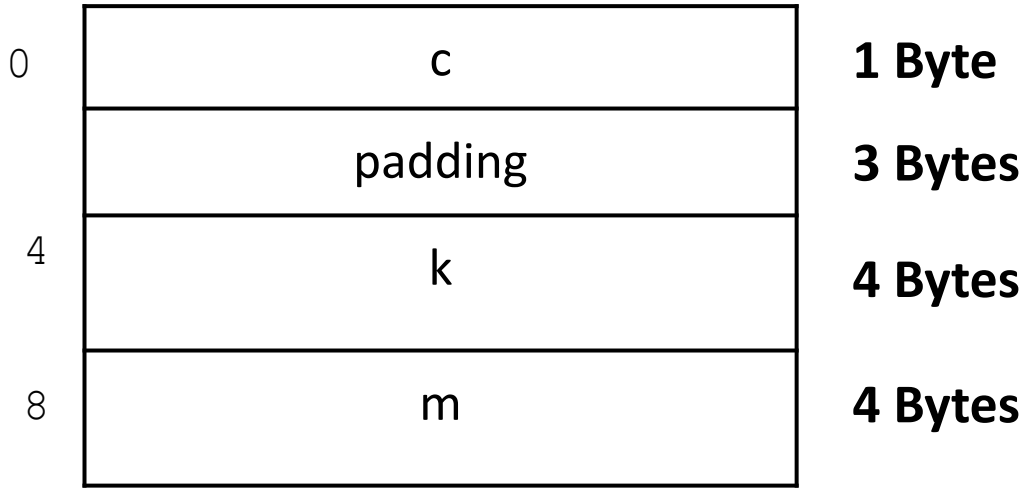
1 Byte

3 Bytes

4 Bytes

Previous Study - Problem 1

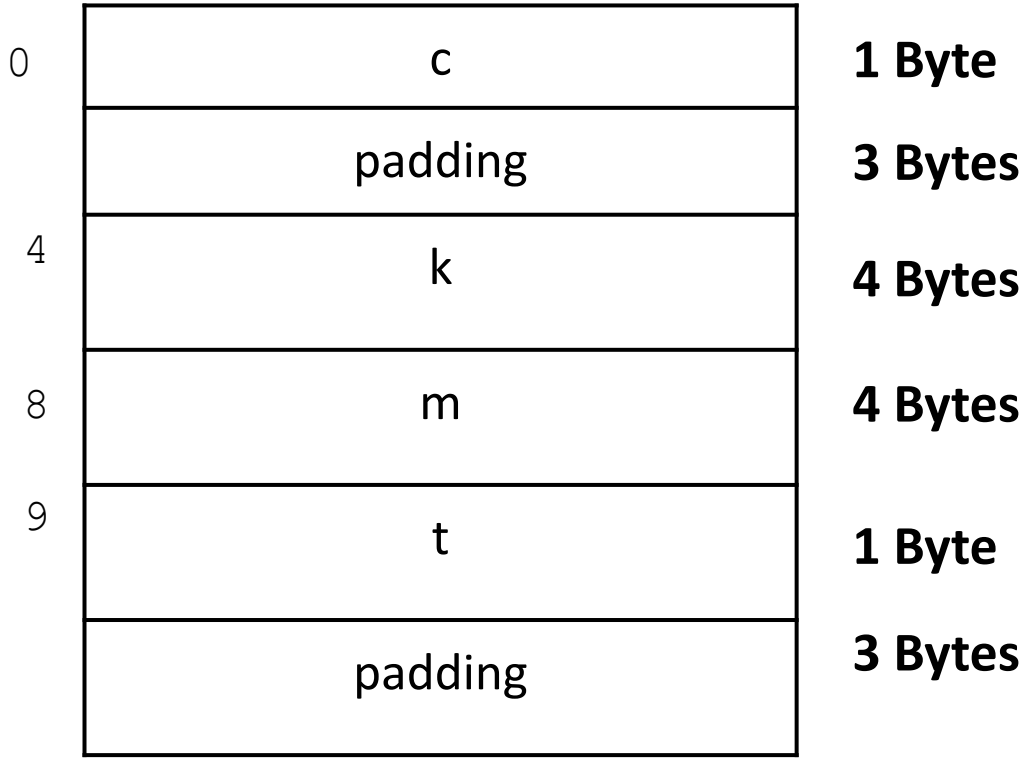
```
typedef struct {
   char c;
   int k;
   int *m;
} S1;
```



Total size of struct S1: **12 bytes**

Another possible scenario

```
typedef struct {
  char c;
  int k;
        int    *m;
  char t;
} S2;
```



Total size of struct S2: **16 bytes**

Important Reminder of Struct

- Each structure has an alignment requirement of k
- k = the largest of the alignments of any element in the structure
- The size of the structure must be a multiple of k