

* C -Language Course Last Homework

1.가 , , 3가 . (10)

2. 가 .
(SngWrt.C)

3.
(SngPrt.C)

- Quick Sort .
- .

qsort

* Prototype in stdlib.h

```
void qsort(void *base, size_t nelem, size_t width, int(*fcmp)(const void *, const void *));
```

- Sorts nelem entries of size width located at base.
- Ranking is determined by user -defined
- routine fcmp,
returning < 0 if elem1 < elem2;
= 0 if elem1 == elem2
> 0 if elem1 > elem2.

ex)

```
typedef struct
```

```
{
```

```
    char sname[100] ;
```

```
    char aname[50] ;
```

```
} SONGS ;
```

```
int songcmp( SONGS *s1, SONGS *s2)
```

```
{
```

```
    strcmp(s1 ->aname, s2 ->aname) ;
```

```
}
```

```
:
```

```
SONGS sng[100] ;
```

```
qsort(sng, 10, sizeof(SONGS) , sngcmp) ;
```