第一题：

```
/* No function call,
 * No include,
 * No Main,
 * Just core.
 */

/* Variable init */
char *a;
int i;

/* malloc */
a = (char *)malloc(sizeof(char) * lenth);
/* lasted node to NULL */
a[lenth -1] = NULL;

for(i = 0; i < lenth; i++) {
      if(a[i] ==  x) {
            for(i++; i<lenth; i++) {
                  a[i-1] = a[i];
            }
            a[lenth-2] = NULL;
            break;
      }
}
```

第二题：

```
/*
 * No function call,
 * No include,
 * No Main,
 * Just core.
 */

typedef struct list {
      char *data;
      char *next;
```

```
} linklist;
/*
 * data need to be use malloc to init
 * and use strcmp to compare.
 */

linklist *mylist;
/*
 * Miss the action to create and init the list,
 * make the point mylist as the start of the list,
 * and data equ to NULL, The end of the list->next = NULL
 */
linklist *tmp = mylist->next;
linklist *tmp1 = mylist;

/* Search for data == x */
while(temp->next) {
	if(strcmp(temp->data, 'x')) {
		tmp1->next = node_e;
		node_e->next = tmp;
	}
	tmp1 = tmp;
	tmp = tmp->next;
}
```

第三題：

```
/*
 * No function call,
 * No include,
 * No Main,
 * Just core.
 */

typedef struct list {
	char *data;
	char *next;
} linklist;
/*
 * data need to be use malloc to init
 * and use strcmp to compare.
 */
```

```
linklist *mylist;
/*
 * Miss the action to create and init the list,
 * make the point mylist as the start of the list,
 * and data equ to NULL, The end of the list->next = NULL
 */
linklist *tmp = mylist;
linklist *tmp1 = mylist->next;
linklist *tmp2 = mylist;

while(temp->next->data) {
	tmp1 = tmp1->next;
	tmp2 = tmp->next;
	tmp->next = tmp;
	tmp = tmp2;
}
```

第四题：

```
/*
 * No function call,
 * No include,
 * No Main,
 * Just core.
 */

typedef struct list {
	char *data;
	char *next;
} linklist;
/*
 * data need to be use malloc to init
 * and use strcmp to compare.
 */

linklist *mylist;
/*
 * Miss the action to create and init the list,
 * make the point mylist as the start of the list,
 * and data equ to NULL, The end of the list->next = NULL
 */
```

```
linklist *tmp = mylist;
linklist *tmp1 = mylist;
linklist *tmp2 = NULL;

/* Search for data == x */
while(tmp) {
	tmp1 = tmp;
	while(tmp1->next) {
		if(strcmp(tmp1->next->data, tmp->data)) {
			tmp2 = tmp1->next;
			tmp1->next = temp->next->next;
			free(tmp2);
			/* Do not forget to free unuse node. */
		}
		tmp1 = tmp1->next;
	}
	tmp = tmp->next;
}
```