

```
struct node {
  int data;
  struct node *ptr;
};
```

```
struct node {
  int data;
  struct node *ptr;
};
  sizeof(struct node)
```

```
struct node {
  int data;
  struct node *ptr;
};
  sizeof(struct node) /* say 10 */
```

```
struct node {
  int data;
  struct node *ptr;
};
int s = sizeof(struct node); /* say 10 */
```

```
struct node {
  int data;
  struct node *ptr;
};
int s = sizeof(struct node); /* say 10 */
                       malloc(s)
   123456
```

```
struct node {
  int data;
  struct node *ptr;
};
int s = sizeof(struct node); /* say 10 */
       (struct node *)malloc(s)
   123456
```

```
int data; struct node *ptr;
```

```
struct node {
  int data;
  struct node *ptr;
};
int s = sizeof(struct node); /* say 10 */
struct node *temp;
temp = (struct node *)malloc(s);
```

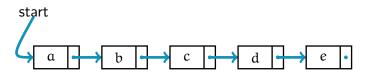
int data; struct node *ptr;

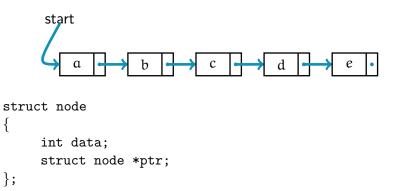
```
struct node {
  int data;
  struct node *ptr;
};
int s = sizeof(struct node); /* say 10 */
struct node *temp;
temp = (struct node *)malloc(s);
temp->data = 11; temp->ptr = NULL;
             int data; struct node *ptr;
```

123456

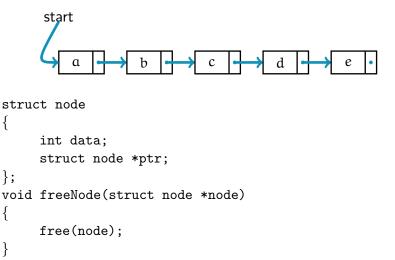
```
struct node {
  int data;
  struct node *ptr;
};
int s = sizeof(struct node); /* say 10 */
struct node *temp;
temp = (struct node *)malloc(s);
temp->data = 11; temp->ptr = NULL;
                data = 11 ptr = NULL
```

123456





```
start
struct node
     int data;
     struct node *ptr;
};
struct node *createNode()
     temp = (struct node *) malloc(sizeof(struct
node));
      return temp;
```



};

struct node *temp;

```
struct node *temp;
temp = createNode();
```



```
struct node *temp;
temp = createNode();
temp->data = 'a';
```



```
struct node *temp;
temp = createNode();
temp->data = 'a';
temp->ptr = NULL;
```



```
struct node *start, *temp;
temp = createNode();
temp->data = 'a';
temp->ptr = NULL;
```

start



```
struct node *start, *temp;
temp = createNode();
temp->data = 'a';
temp->ptr = NULL;
start = temp;
start
```



```
struct node *start, *temp; temp = createNode();
temp = createNode();
temp->data = 'a';
temp->ptr = NULL;
start = temp;

start
```

```
struct node *start, *temp;
                               temp = createNode();
temp = createNode();
                               temp->data = 'b';
temp->data = 'a';
temp->ptr = NULL;
start = temp;
       start
```

```
struct node *start, *temp;
                               temp = createNode();
temp = createNode();
                               temp->data = 'b';
temp->data = 'a';
                               temp->ptr = NULL;
temp->ptr = NULL;
start = temp;
       start
```

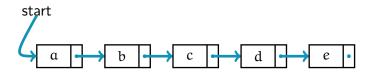
```
struct node *start, *temp;
temp = createNode();
temp->data = 'a';
temp->ptr = NULL;
start = temp;

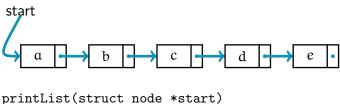
start

a b •
```

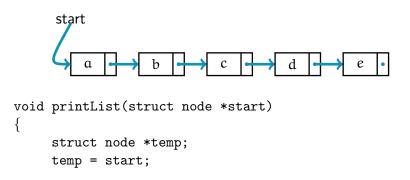
```
temp = createNode();
temp->data = 'b';
temp->ptr = NULL;
start->ptr = temp;
```

```
struct node *start, *temp; temp = createNode();
temp = createNode(); temp->data = 'b';
temp->data = 'a'; temp->ptr = NULL;
temp->ptr = NULL; start->ptr = temp;
start = temp;
```





```
void printList(struct node *start)
{
```



```
start
void printList(struct node *start)
     struct node *temp;
     temp = start;
     while(temp != NULL)
```

```
start
void printList(struct node *start)
     struct node *temp;
     temp = start;
     while(temp != NULL)
          printf("%d", temp->data);/*\equiv(*temp).data */
```

```
start
void printList(struct node *start)
     struct node *temp;
     temp = start;
     while(temp != NULL)
          printf("%d", temp->data);/*\equiv(*temp).data */
          temp = temp->ptr;
```