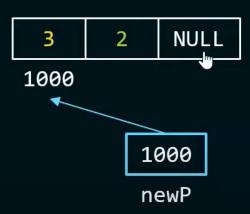
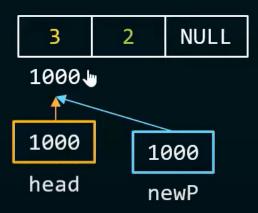
```
struct node* create(struct node* head)
                                                                      Console Window
                                                          Enter the polynomial
    int n;
                                                          Enter the number of terms: 2
    int 1;
                                                          Enter the coefficient for term 1: 3
    float coeff;
                                                          Enter the exponent for term 1: 2
    int expo;
    printf("Enter the number of terms: ");
    scanf("%d", &n);
    for(i=0; i<n; i++)
        printf("Enter the coefficient for term %d: ", i+1);
                                                                                          head
        scanf("%f", &coeff);
        printf("Enter the exponent for term %d: ", i+1);
        scanf("%d", &expo);
        head = insert(head, coeff, expo);
                                                                                   coeff
                                                                                           expo
```

NULL 3 2 head co ex



```
struct node* insert(struct node* head, int co, int ex)
    struct node* temp;
    struct node* newP = malloc(sizeof(struct node));
    newP->coeff = co;
    newP->expo = ex;
    newP->link = NULL;
    if(head == NULL || ex > head->expo)
       newP->link = head;
       head = newP;
    else
        temp = head;
        while(temp->link != NULL && temp->link->expo > ex)
            temp = temp->link;
        newP->link = temp->link;
        temp->link = newP;
    return head;
```

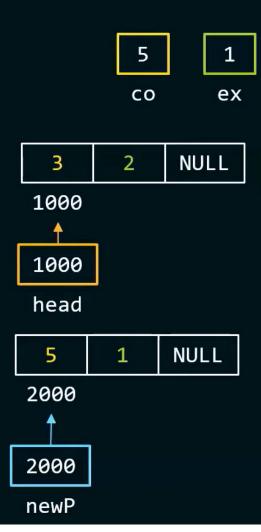




```
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    newP->coeff = co;
    newP->expo = ex;
    newP->link = NULL;
   if(head == NULL || ex > head->expo)
       newP->link = head;
       head = newP;
    else
        temp = head;
        while(temp->link != NULL && temp->link->expo > ex)
            temp = temp->link;
        newP->link = temp->link;
        temp->link = newP;
    return head;
```

```
struct node* create(struct node* head)
                                                                         Console Window
                                                            Enter the polynomial
    int n;
                                                            Enter the number of terms: 2
    int i;
                                                            Enter the coefficient for term 1: 3
    float coeff;
                                                            Enter the exponent for term 1: 2
    int expo;
                                                            Enter the coefficient for term 2: 5
                                                            Enter the exponent for term 2: 1
    printf("Enter the number of terms: ");
    scanf("%d", &n);
    for(i=0; i<n; i++)
                                                                                              NULL
         printf("Enter the coefficient for term %d: ", i+1);
                                                                                              head
                                                                                        n
         scanf("%f", &coeff);
         printf("Enter the exponent for term %d: ", i+1);
         scanf("%d", &expo);
         head = insert(head, coeff, expo);
                                                                                      coeff
                                                                                               expo
```

New Insert Function



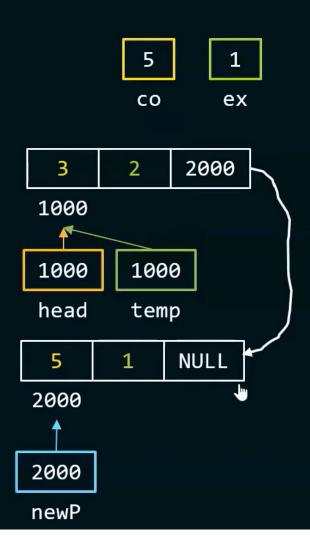
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struct node* insert(struct node* head, int co, int ex)
    struct node* temp;
    struct node* newP = malloc(sizeof(struct node));
    newP->coeff = co;
    newP->expo = ex;
    newP->link = NULL;
    if(head == NULL || ex > head->expo)
        newP->link = head;
        head = newP;
    else
        temp = head;
       while(temp->link != NULL && temp->link->expo > ex)
            temp = temp->link;
        newP->link = temp->link;
        temp->link = newP;
    return head;
```

New Insert Function

```
5
         CO
                ex
            NULL
        2
1000
1000
head
            NULL
2000
2000
newP
```

```
struct node* insert(struct node* head, int co, int ex)
    struct node* temp;
   struct node* newP = malloc(sizeof(struct node));
   newP->coeff = co;
   newP->expo = ex;
   newP->link = NULL;
    if(head == NULL || ex > head->expo)
       newP->link = head;
       head = newP;
   else
        temp = head;
       while(temp->link != NULL && temp->link->expo > ex)
           temp = temp->link;
        newP->link = temp->link;
        temp->link = newP;
    return head;
```

New Insert Function



```
struct node* insert(struct node* head, int co, int ex)
   struct node* temp;
   struct node* newP = malloc(sizeof(struct node));
   newP->coeff = co;
   newP->expo = ex;
   newP->link = NULL;
   if(head == NULL || ex > head->expo)
        newP->link = head;
        head = newP;
   else
       temp = head;
        while(temp->link != NULL && temp->link->expo > ex)
            temp = temp->link;
        newP->link = temp->link;
        temp->link = newP;
   return head;
```

Display Polynomial



