






Algoritma dan Struktur Data

Circular Linked List

FREE PARKING 	PRICE \$220 KENTUCKY AVENUE	CHANCE 	PRICE \$220 INDIANA AVENUE	PRICE \$240 ILLINOIS AVENUE	PRICE \$200 E. C. RAILROAD 	PRICE \$200 ATLANTIC AVENUE	PRICE \$200 VENUE AVENUE	PRICE \$170 WATER WORKS 	PRICE \$200 MAEVEN GARDENS	GO TO JAIL 
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PRICE \$200 NEW YORK AVENUE	PRICE \$180 TENNESSEE AVENUE	COMMUNITY CHEST 	PRICE \$180 ST. JAMES PLACE	PRICE \$200 PENNSYLVANIA RAILROAD 	PRICE \$150 VIRGINIA AVENUE	PRICE \$140 STATES AVENUE 	PRICE \$150 ELECTRIC COMPANY 	PRICE \$140 ST. CHARLES PLACE
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COMMUNITY CHEST
THE GREAT
Community Chest


MONOPOLY

REGISTERED IN U.S. PATENT OFFICE
TRADE MARK

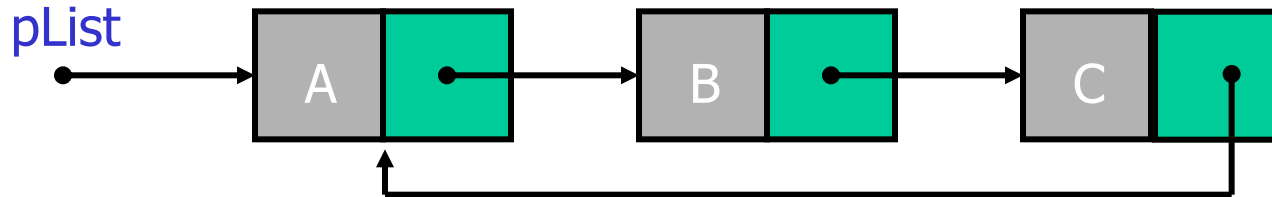
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CHANCE


PRICE \$180 PACIFIC AVENUE	PRICE \$180 NORTH CAROLINA AVENUE	COMMUNITY CHEST 	PRICE \$180 PENNSYLVANIA AVENUE	PRICE \$200 SHORT LINE 	CHANCE 	PRICE \$180 FAIR PLACE	PRICE \$150 LUXURY TAX 	PRICE \$400 BOARDWALK
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JUST 	CONNECTICUT AVENUE	VERMONT AVENUE	CHANCE 	ORIENTAL AVENUE 	READING RAILROAD 	INCOME TAX PAY 10% OR \$200	BALTIC AVENUE 	COMMUNITY CHEST 	MEDITERRANEAN AVENUE	COLLECT \$200.00 SALARY AS YOU PASS 
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Struktur Circular Linked List



- Node terakhir menunjuk node pertama
- Setiap node terdiri atas
 - Isi data
 - Next, yaitu pointer ke node selanjutnya pada list

Struktur Sebuah Node

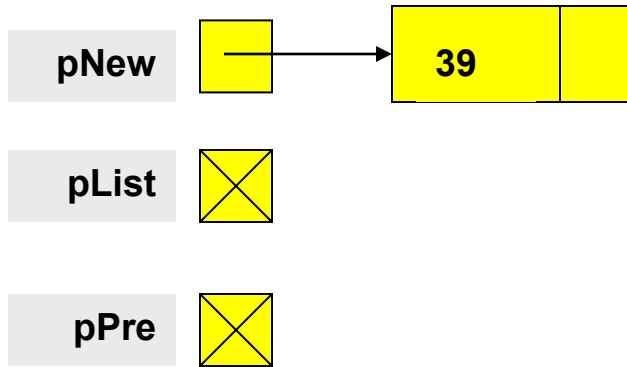
```
struct node {  
  
    //bagian data  
    typedata data 1;  
    typedata data 2;  
    ...  
    typedata data n;  
  
    //pointer ke node selanjutnya  
    struct node *next;  
};  
typedef struct node node;
```

Operasi dasar linked list

1. Menambah sebuah node.
2. Menghapus sebuah node.
3. Mencari sebuah node.
4. List tranversal

Menambahkan node ke list kosong

Before:

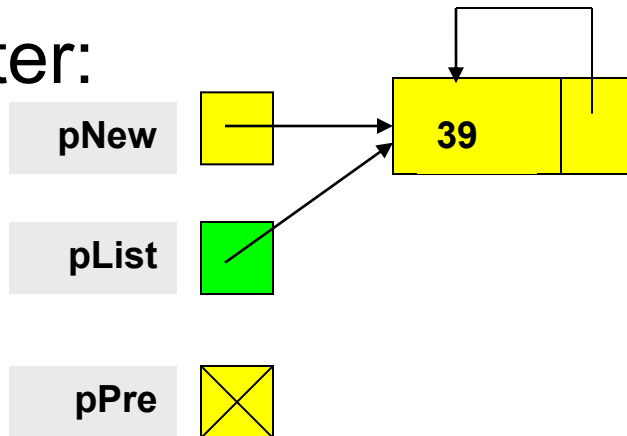


Code:

```
pNew -> next = pNew;
```

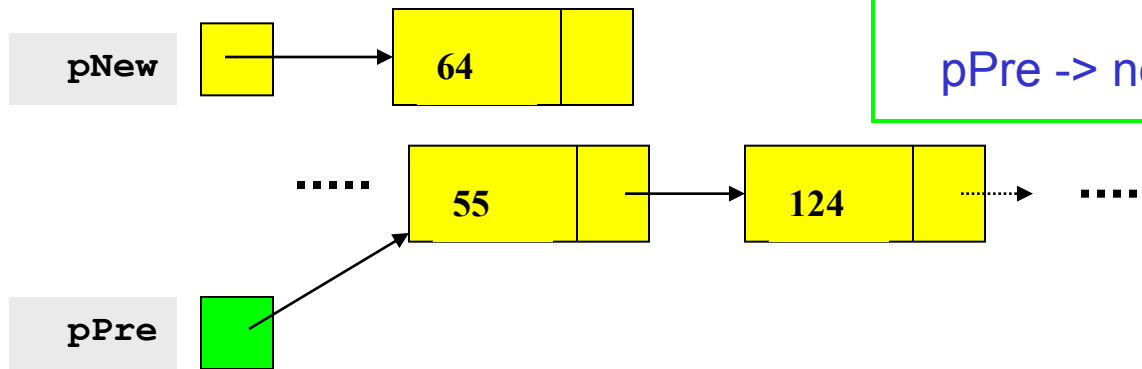
```
pList = pNew; // point list to first node
```

After:



Menambahkan node di tengah list

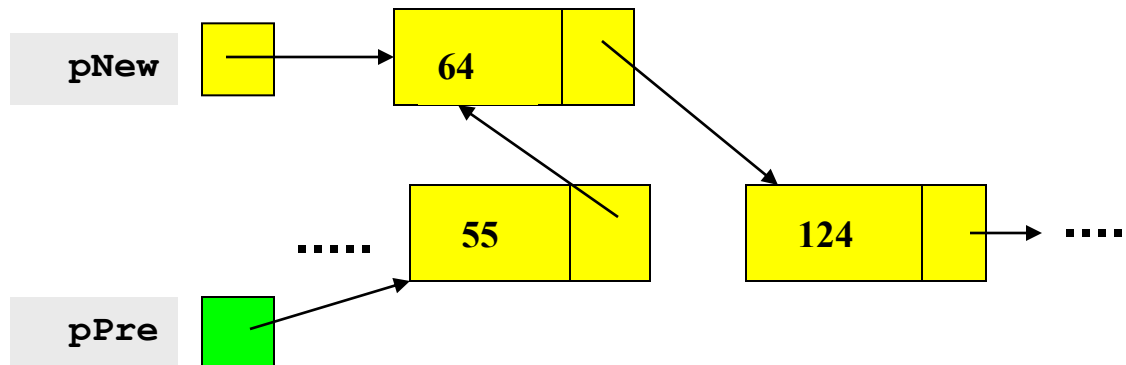
Before:



Code

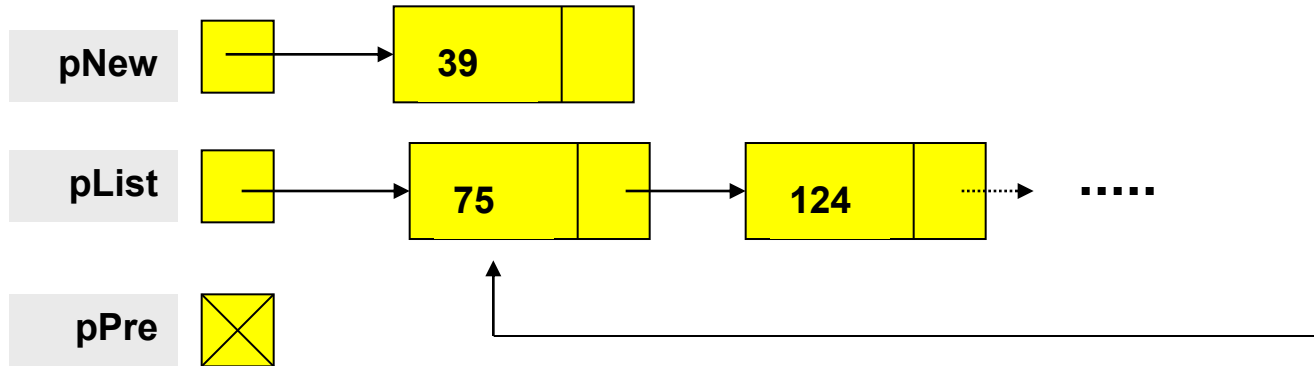
```
pNew -> next = pPre -> next;  
pPre -> next = pNew;
```

After:



Latihan : bagaimana menyisipkan node sebelum pList?

Before:

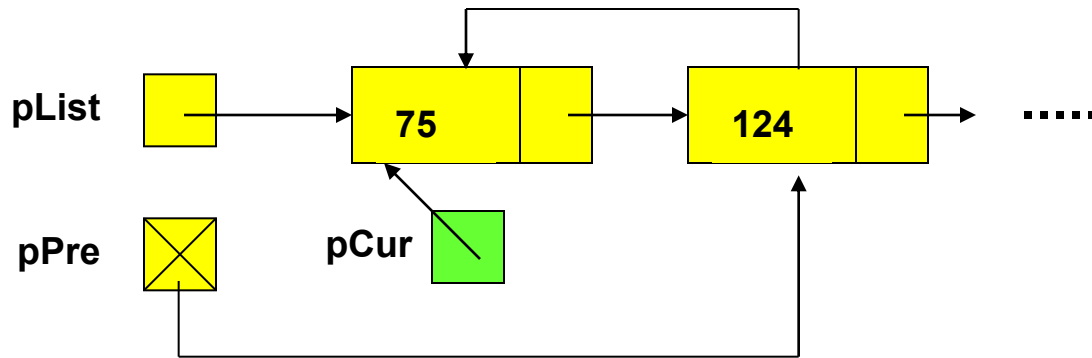


Code ?

After ?

Menghapus node pertama dari linked list

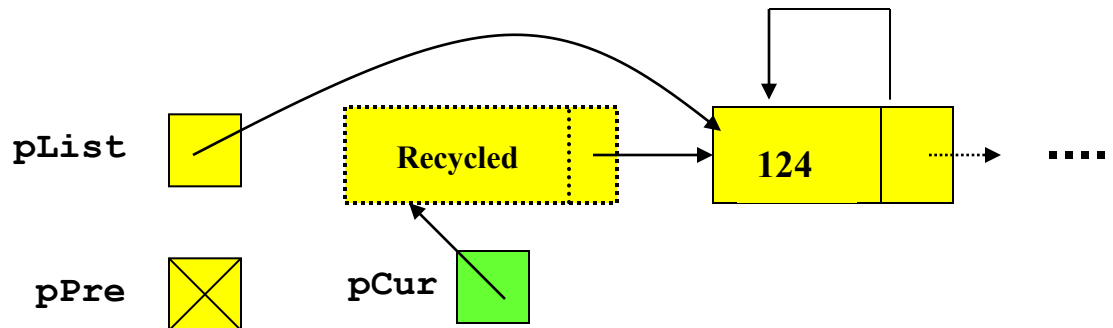
Before:



Code:

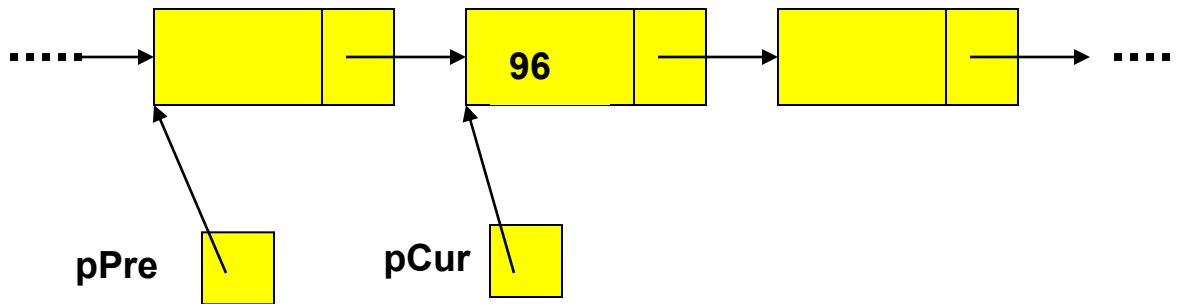
```
pPre -> next = pCur->next;  
pList = pList->next;  
free(pCur);
```

After:



Menghapus node dari linked list – kasus umum

Before:



Code:

```
pPre -> next = pCur -> next;  
free(pCur);
```

After:

