```cpp
// Online C++ compiler to run C++ program online
#include <iostream>
struct node
{
    node *back;
    int data;
    node *next;
};
using namespace std;
int main() {
    node *nptr,*header=NULL, *tptr, *tail;
    for (int i = 3; i<8;i+=2){
        nptr = new node;
        nptr->back = NULL;
        nptr->data =   i;
        nptr->next =  NULL;
        if(header ==NULL){
            header = nptr;
            tptr = nptr;
        }
        else{
            tptr->next = nptr;
            nptr->back = tptr;
            tptr= nptr;
        }
    }
    tail = tptr;
    tptr=header;
    while (tptr!=NULL){
```

```cpp
        cout<<"tptr->data "<<tptr->data<<endl;

        cout<<"tptr->next "<<tptr->next<<endl;

        cout<<"tptr->back "<<tptr->back<<endl;

        tptr=tptr->next;

    }

    tptr=tail;

    while (tptr!=NULL){

        cout<<"tptr->data "<<tptr->data<<endl;

        cout<<"tptr->next "<<tptr->next<<endl;

        cout<<"tptr->back "<<tptr->back<<endl;

        tptr=tptr->back;

    }



    return 0;

}
```