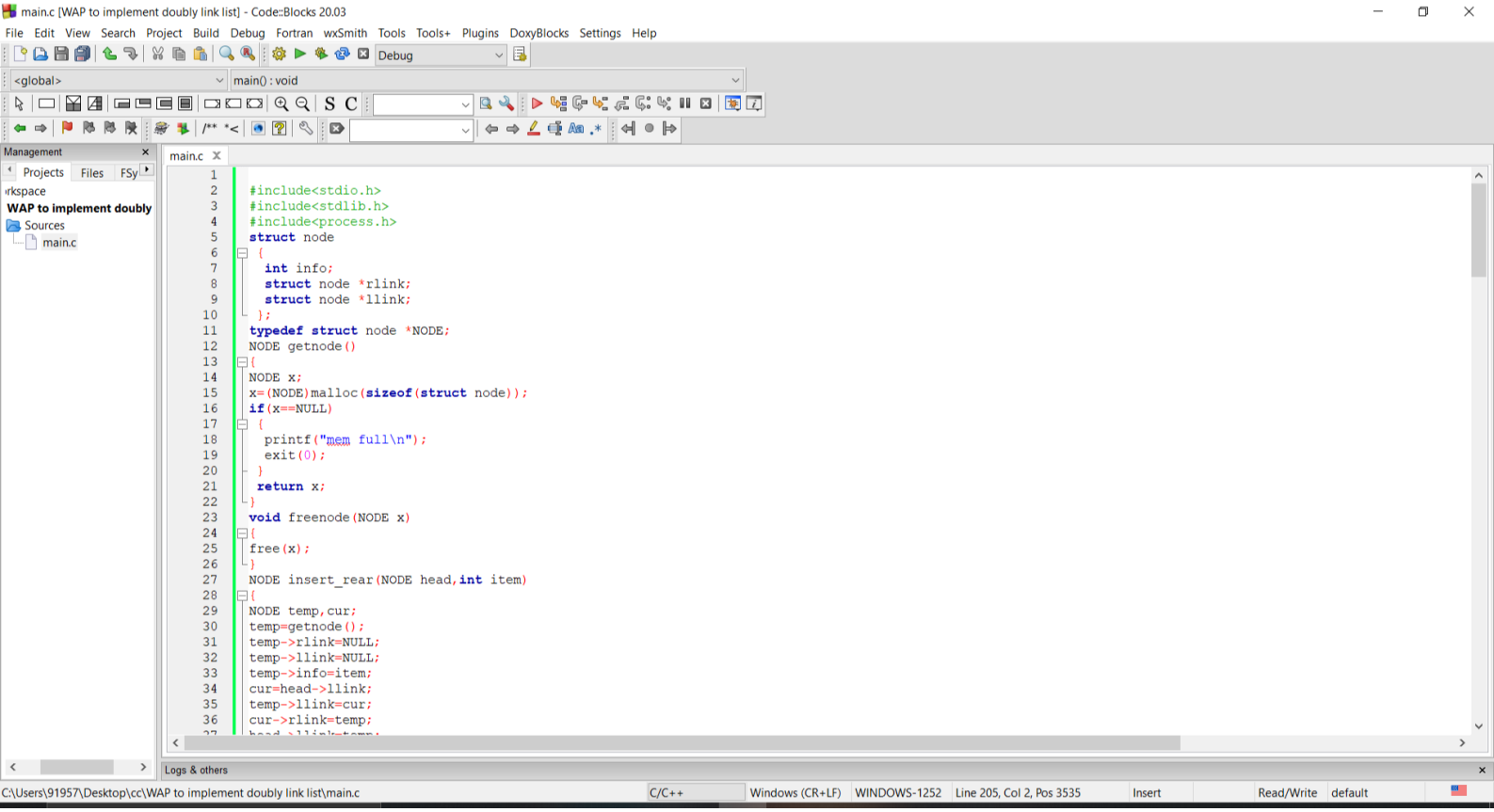
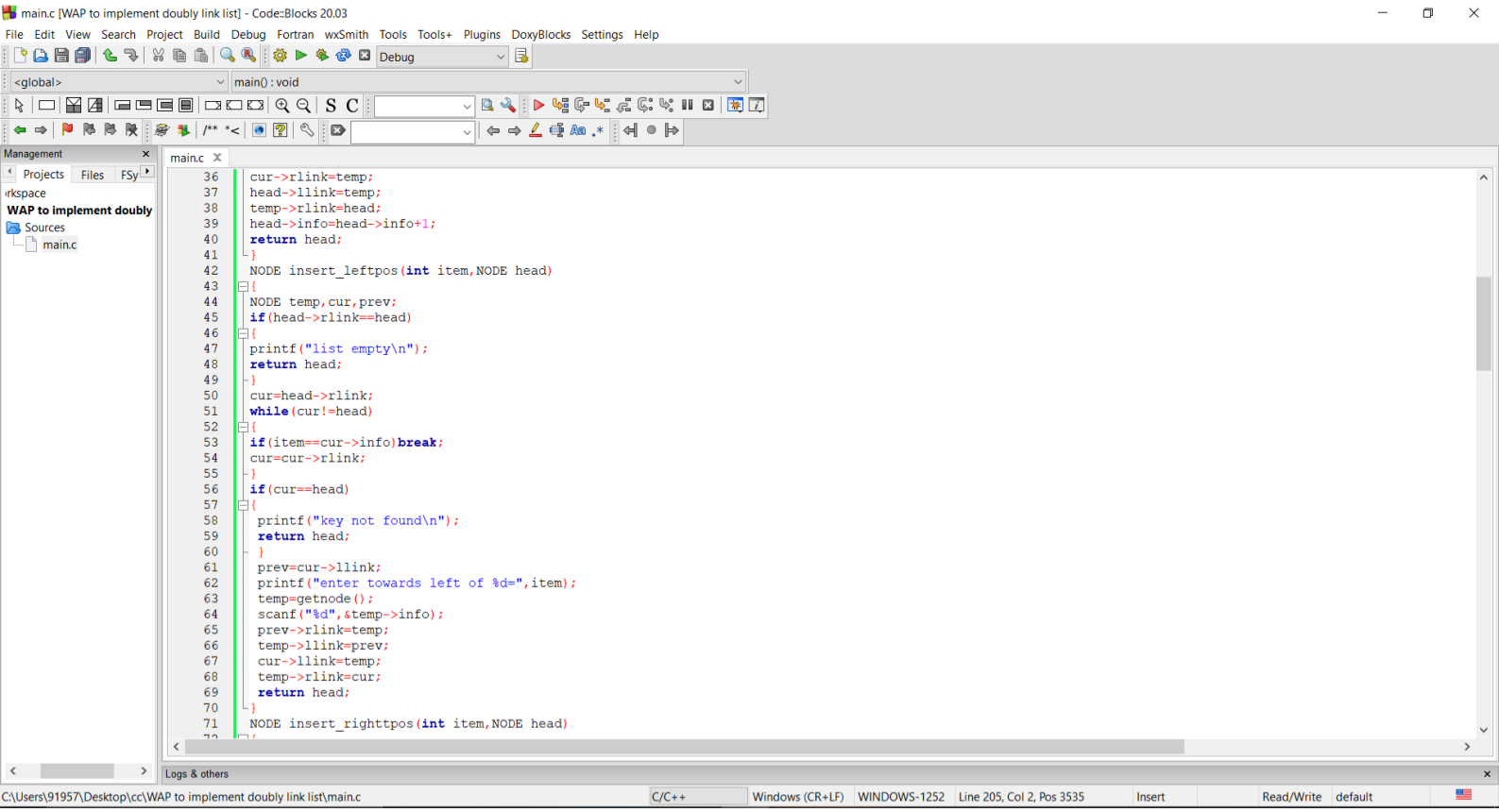
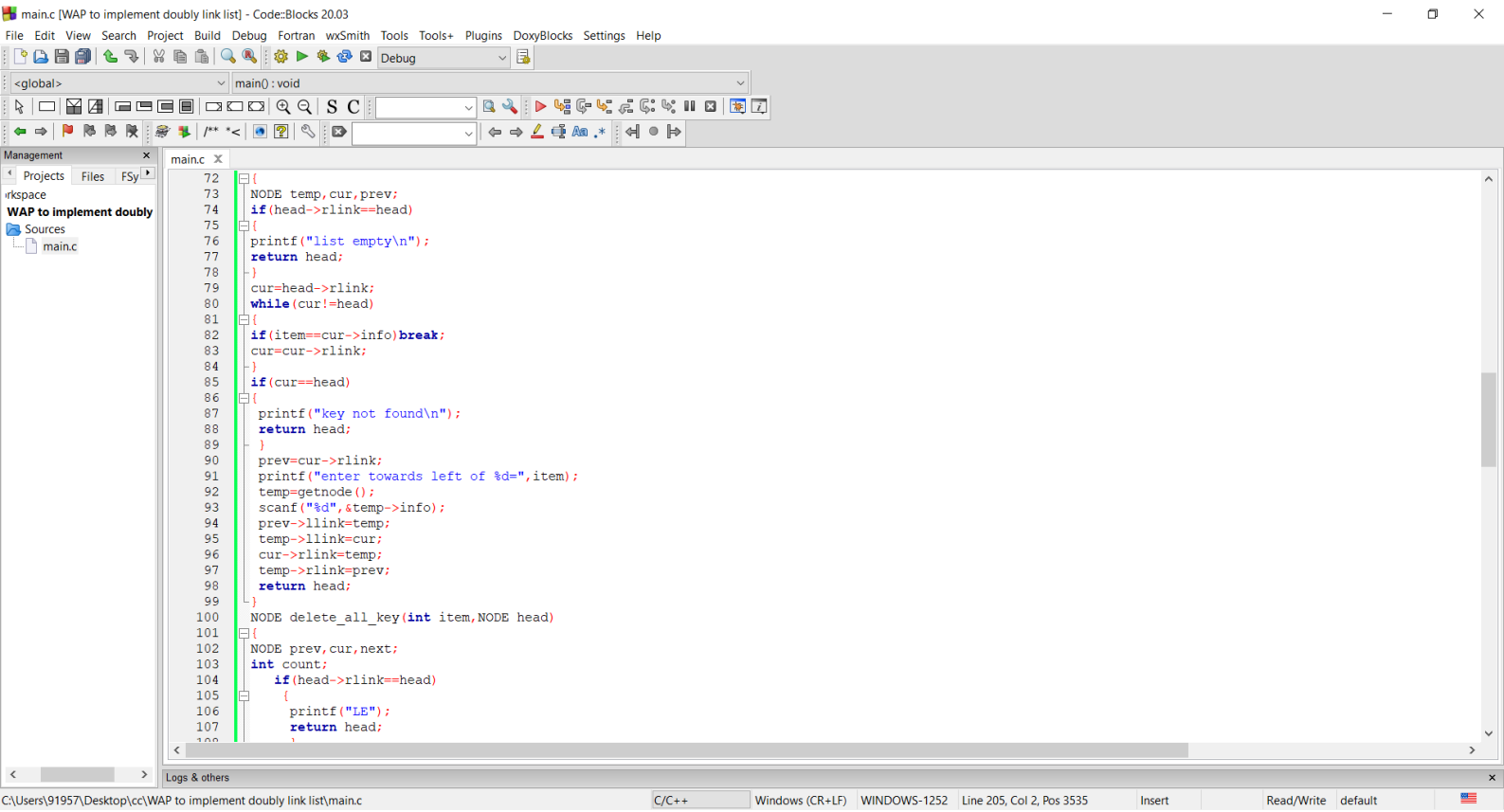
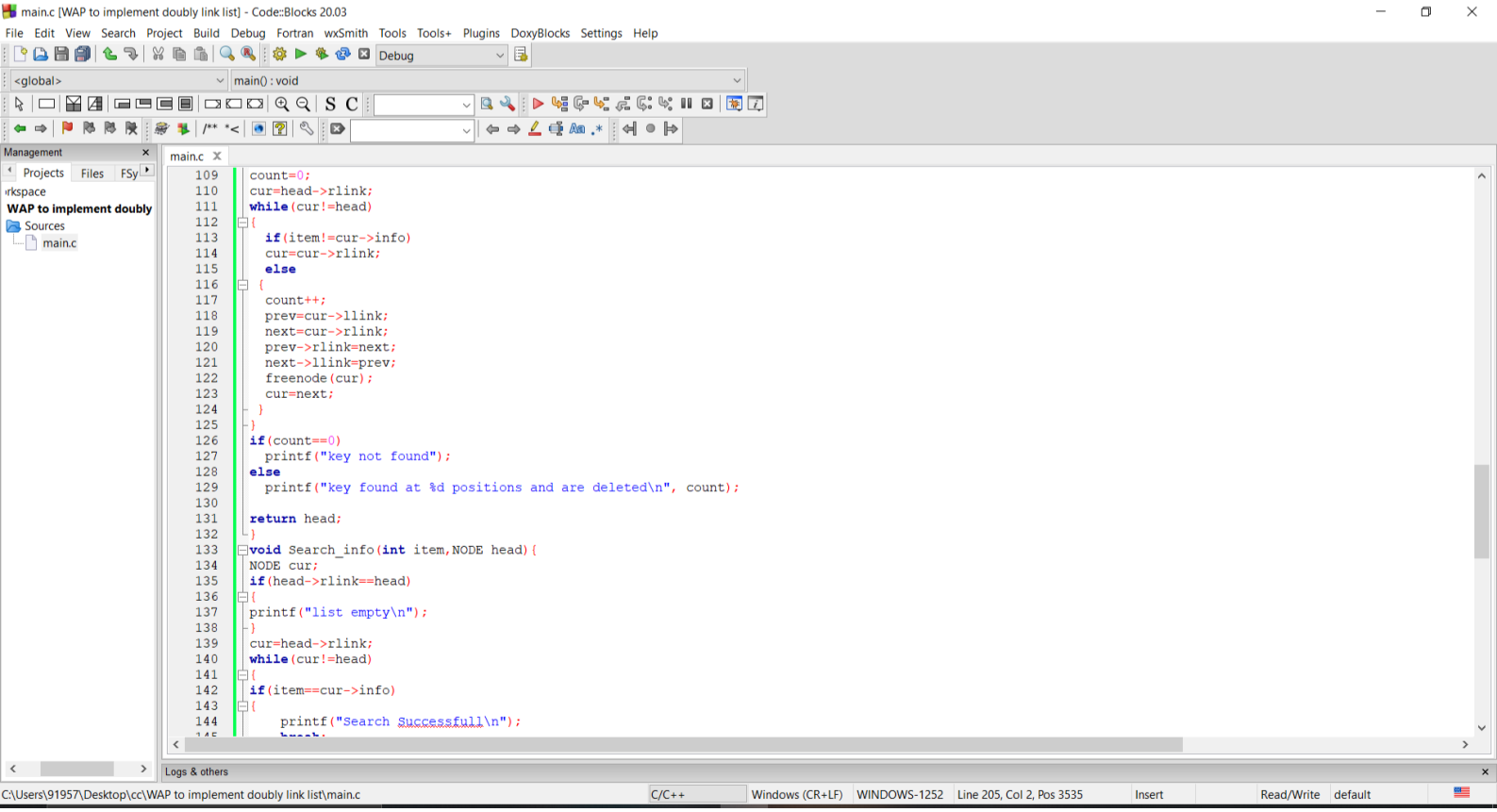
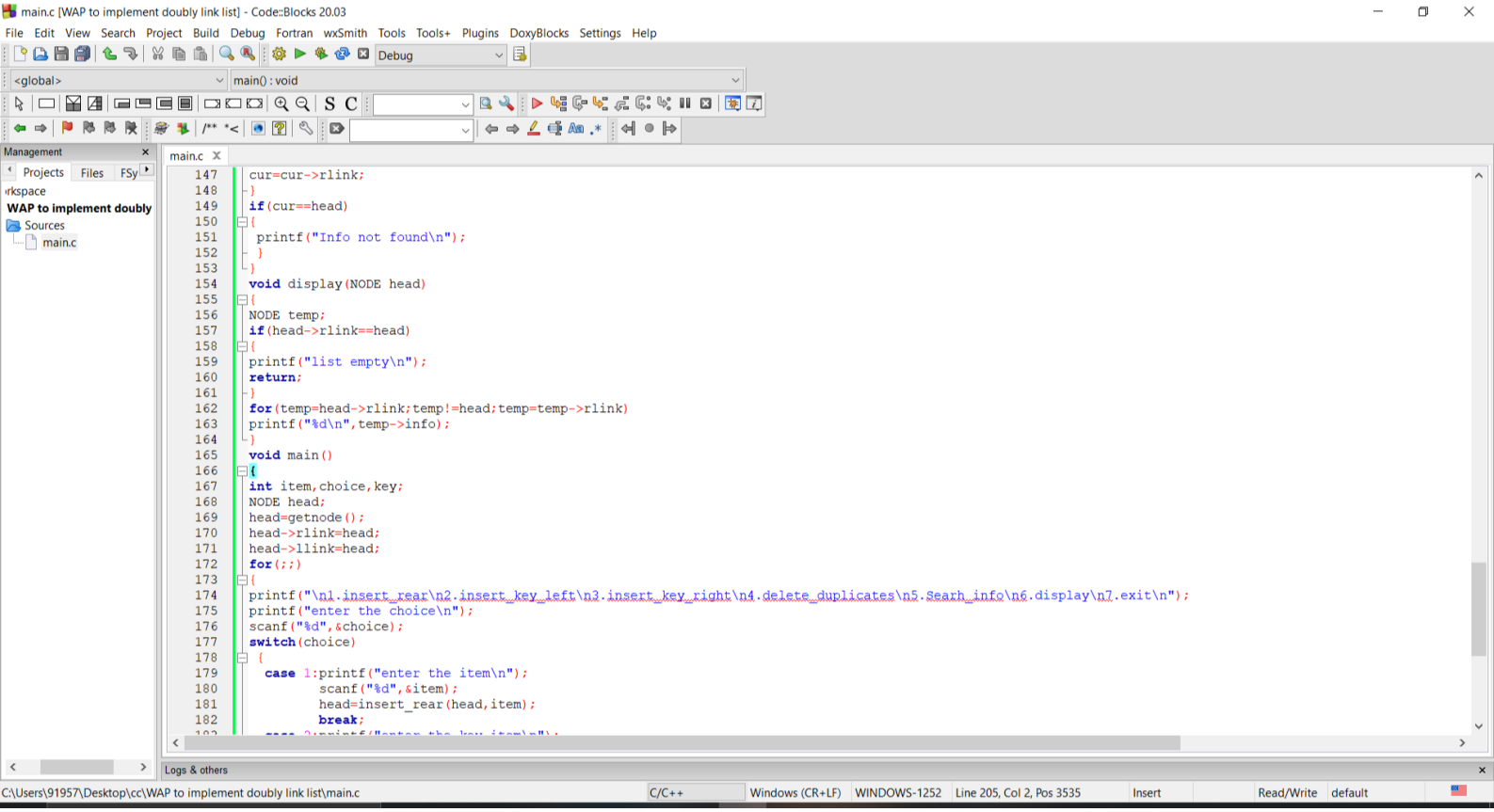
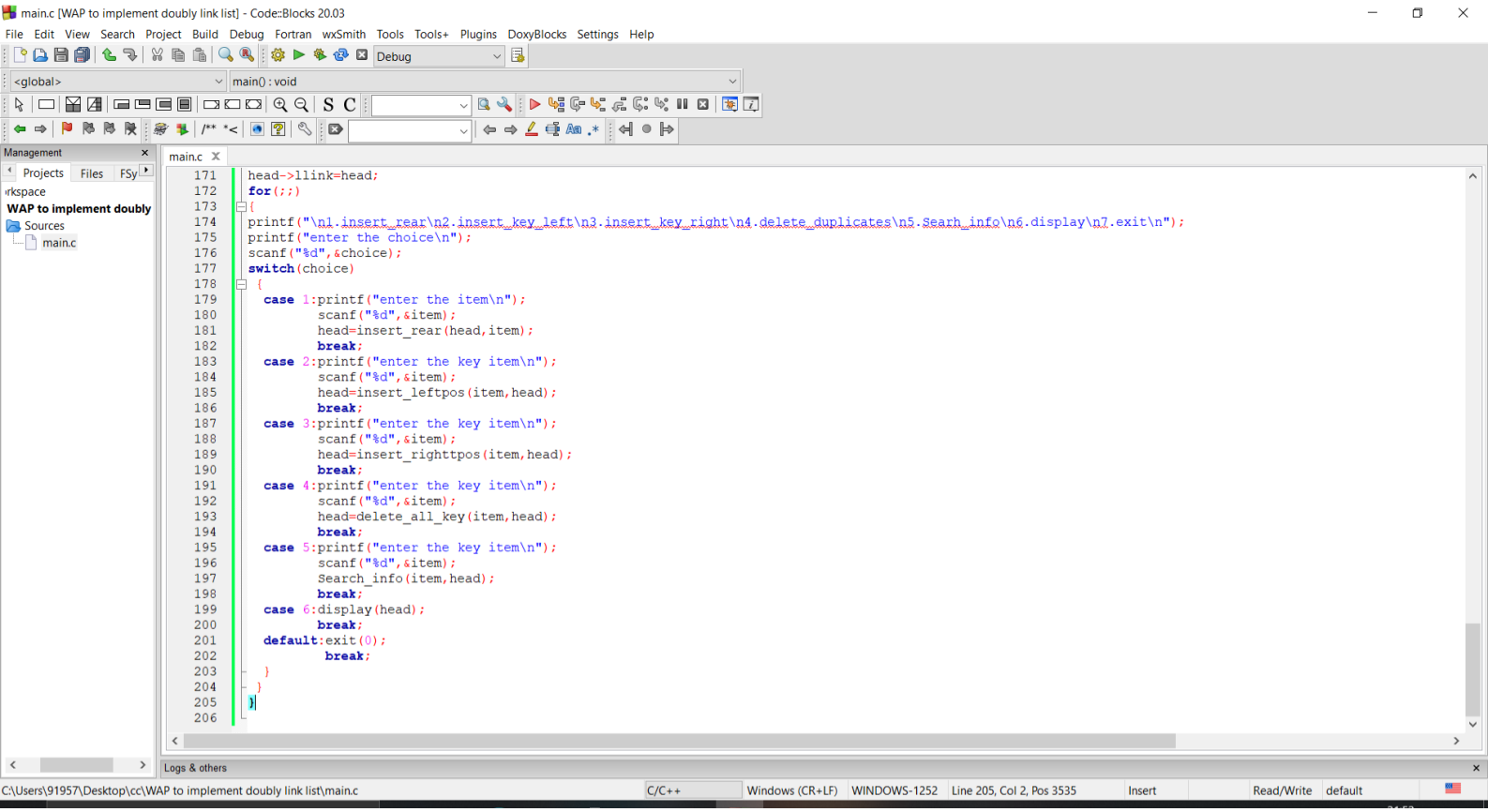

main.c [WAP to implement doubly link list] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
<global>
main() : void
Management
Projects Files FSy
rkspace
WAP to implement doubly
Sources
main.c
main.c
#include<stdio.h>
#include<stdlib.h>
#include<process.h>
struct node
{
int info;
struct node *rlink;
struct node *llink;
};
typedef struct node *NODE;
NODE getnode()
{
NODE x;
x=(NODE)malloc(sizeof(struct node));
if(x==NULL)
{
printf("mem full\n");
exit(0);
}
return x;
}
void freenode(NODE x)
{
free(x);
}
NODE insert_rear(NODE head,int item)
{
NODE temp,cur;
temp=getnode();
temp->rlink=NULL;
temp->llink=NULL;
temp->info=item;
cur=head->llink;
temp->llink=cur;
cur->rlink=temp;
Logs & others
C:\Users\91957\Desktop\cc\WAP to implement doubly link list\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 205, Col 2, Pos 3535
Insert
Read/Write
default

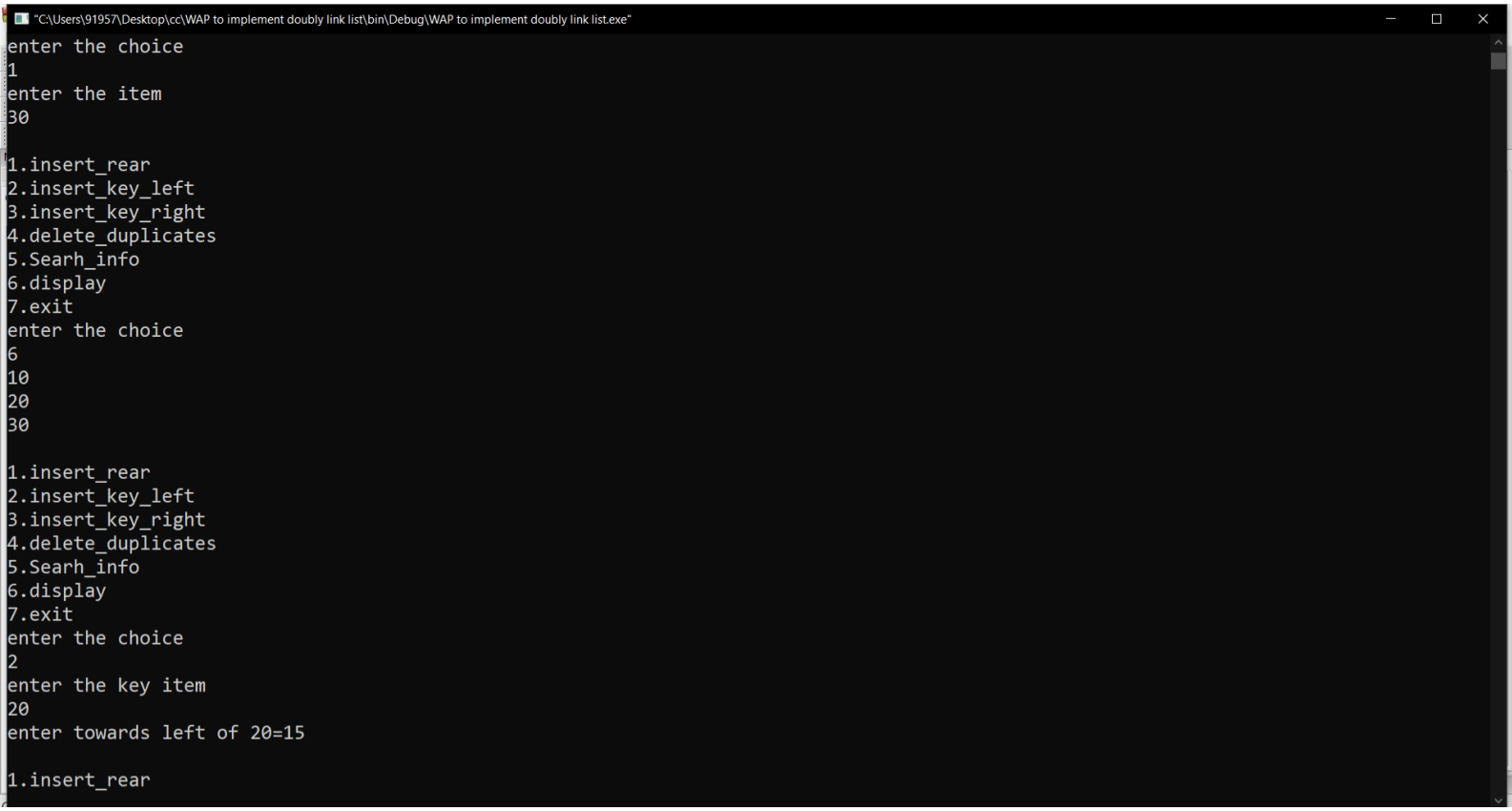

main.c [WAP to implement doubly link list] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
<global>
main() : void
Management
Projects Files FSy
rkspace
WAP to implement doubly
Sources
main.c
main.c
cur->rlink=temp;
head->llink=temp;
temp->rlink=head;
head->info=head->info+1;
return head;
}
NODE insert_leftpos(int item,NODE head)
{
NODE temp,cur,prev;
if(head->rlink==head)
{
printf("list empty\n");
return head;
}
cur=head->rlink;
while(cur!=head)
{
if(item==cur->info)break;
cur=cur->rlink;
}
if(cur==head)
{
printf("key not found\n");
return head;
}
prev=cur->llink;
printf("enter towards left of %d=",item);
temp=getnode();
scanf("%d",&temp->info);
prev->rlink=temp;
temp->llink=prev;
cur->llink=temp;
temp->rlink=cur;
return head;
}
NODE insert_righttpos(int item,NODE head)
Logs & others
C:\Users\91957\Desktop\cc\WAP to implement doubly link list\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 205, Col 2, Pos 3535
Insert
Read/Write
default


main.c [WAP to implement doubly link list] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
<global>
main() : void
Management
Projects Files FSy
rkspace
WAP to implement doubly
Sources
main.c
main.c
72 {
73 NODE temp,cur,prev;
74 if(head->rlink==head)
75 {
76 printf("list empty\n");
77 return head;
78 }
79 cur=head->rlink;
80 while(cur!=head)
81 {
82 if(item==cur->info)break;
83 cur=cur->rlink;
84 }
85 if(cur==head)
86 {
87 printf("key not found\n");
88 return head;
89 }
90 prev=cur->rlink;
91 printf("enter towards left of %d=",item);
92 temp=getnode();
93 scanf("%d",&temp->info);
94 prev->llink=temp;
95 temp->llink=cur;
96 cur->rlink=temp;
97 temp->rlink=prev;
98 return head;
99 }
100 NODE delete_all_key(int item,NODE head)
101 {
102 NODE prev,cur,next;
103 int count;
104 if(head->rlink==head)
105 {
106 printf("LE");
107 return head;
Logs & others
C:\Users\91957\Desktop\cc\WAP to implement doubly link list\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 205, Col 2, Pos 3535
Insert
Read/Write
default


main.c [WAP to implement doubly link list] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
<global>
main() : void
Management
Projects Files FSy
rkspace
WAP to implement doubly
Sources
main.c
main.c
109 count=0;
110 cur=head->rlink;
111 while(cur!=head)
112 {
113 if(item!=cur->info)
114 cur=cur->rlink;
115 else
116 {
117 count++;
118 prev=cur->llink;
119 next=cur->rlink;
120 prev->rlink=next;
121 next->llink=prev;
122 freenode(cur);
123 cur=next;
124 }
125 }
126 if(count==0)
127 printf("key not found");
128 else
129 printf("key found at %d positions and are deleted\n", count);
130
131 return head;
132 }
133 void Search_info(int item,NODE head){
134 NODE cur;
135 if(head->rlink==head)
136 {
137 printf("list empty\n");
138 }
139 cur=head->rlink;
140 while(cur!=head)
141 {
142 if(item==cur->info)
143 {
144 printf("Search Successfull\n");
Logs & others
C:\Users\91957\Desktop\cc\WAP to implement doubly link list\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 205, Col 2, Pos 3535
Insert
Read/Write
default


main.c [WAP to implement doubly link list] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
<global>
main() : void
Management
Projects Files FSy
rkspace
WAP to implement doubly
Sources
main.c
main.c
147 cur=cur->rlink;
148 }
149 if(cur==head)
150 {
151 printf("Info not found\n");
152 }
153 }
154 void display(NODE head)
155 {
156 NODE temp;
157 if(head->rlink==head)
158 {
159 printf("list empty\n");
160 return;
161 }
162 for(temp=head->rlink;temp!=head;temp=temp->rlink)
163 printf("%d\n",temp->info);
164 }
165 void main()
166 {
167 int item,choice,key;
168 NODE head;
169 head=getnode();
170 head->rlink=head;
171 head->llink=head;
172 for(;;)
173 {
174 printf("\n1.insert_rear\n2.insert_key_left\n3.insert_key_right\n4.delete_duplicates\n5.Search_info\n6.display\n7.exit\n");
175 printf("enter the choice\n");
176 scanf("%d",&choice);
177 switch(choice)
178 {
179 case 1:printf("enter the item\n");
180 scanf("%d",&item);
181 head=insert_rear(head,item);
182 break;
Logs & others
C:\Users\91957\Desktop\cc\WAP to implement doubly link list\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 205, Col 2, Pos 3535
Insert
Read/Write
default

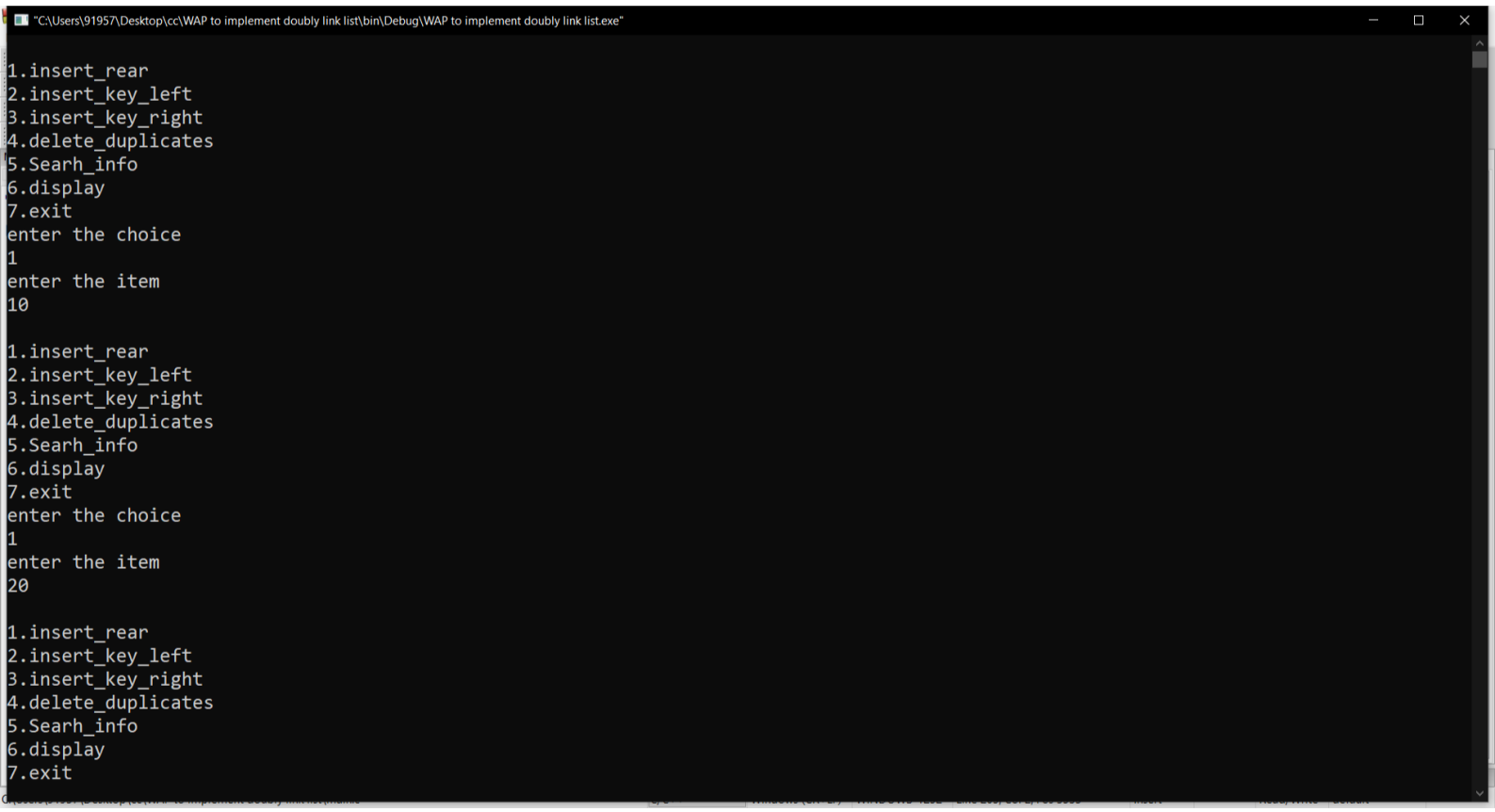

main.c [WAP to implement doubly link list] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Debug
<global>
main() : void
Management
Projects Files FSy
rkspace
WAP to implement doubly
Sources
main.c
main.c
head->llink=head;
for(;;)
{
printf("\n1.insert_rear\n2.insert_key_left\n3.insert_key_right\n4.delete_duplicates\n5.Search_info\n6.display\n7.exit\n");
printf("enter the choice\n");
scanf("%d",&choice);
switch(choice)
{
case 1:printf("enter the item\n");
scanf("%d",&item);
head=insert_rear(head,item);
break;
case 2:printf("enter the key item\n");
scanf("%d",&item);
head=insert_leftpos(item,head);
break;
case 3:printf("enter the key item\n");
scanf("%d",&item);
head=insert_righttpos(item,head);
break;
case 4:printf("enter the key item\n");
scanf("%d",&item);
head=delete_all_key(item,head);
break;
case 5:printf("enter the key item\n");
scanf("%d",&item);
Search_info(item,head);
break;
case 6:display(head);
break;
default:exit(0);
break;
}
}
}
Logs & others
C:\Users\91957\Desktop\cc\WAP to implement doubly link list\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 205, Col 2, Pos 3535
Insert
Read/Write
default

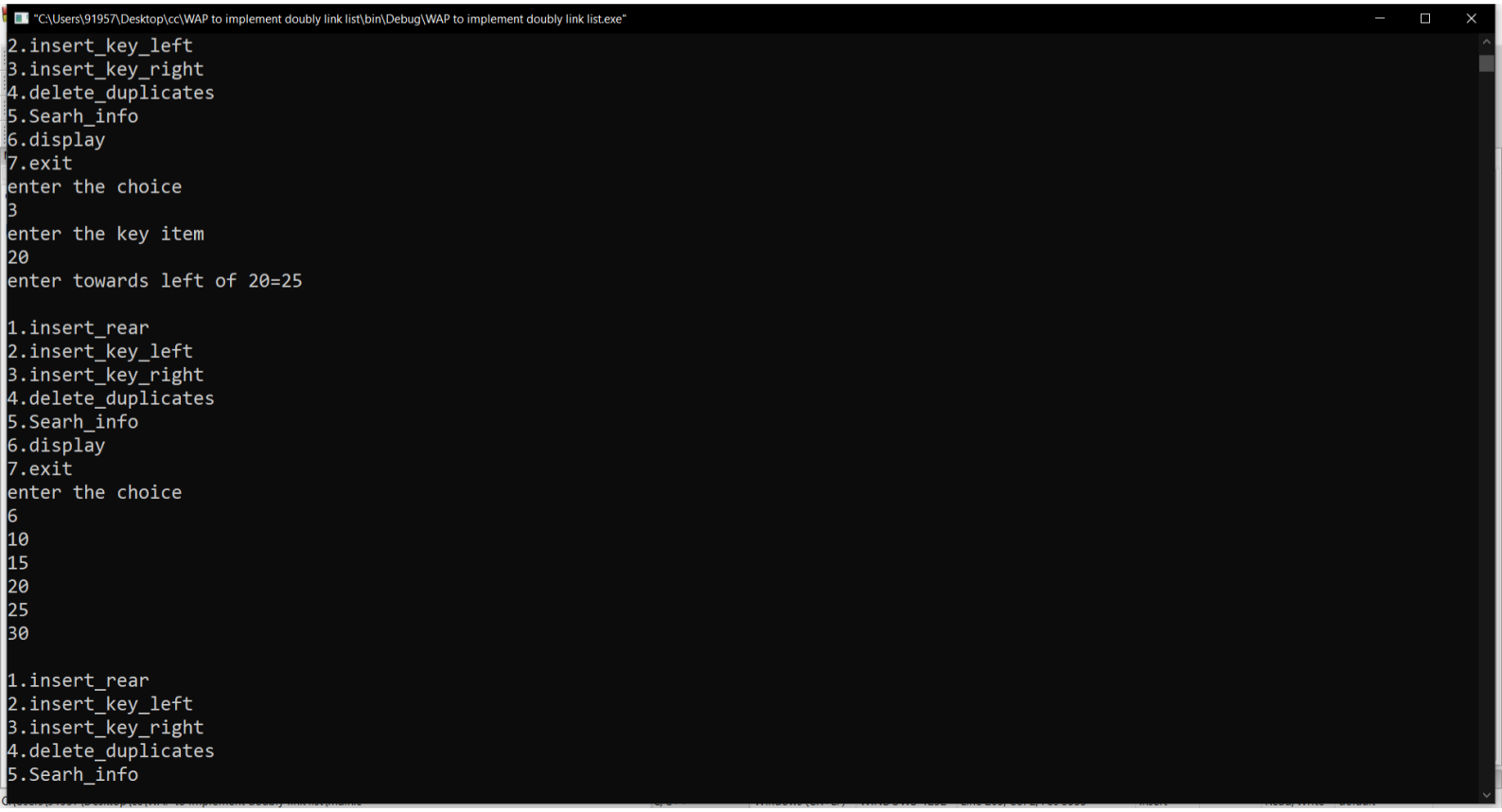

"C:\Users\91957\Desktop\cc\WAP to implement doubly link list\bin\Debug\WAP to implement doubly link list.exe"
enter the choice
1
enter the item
30

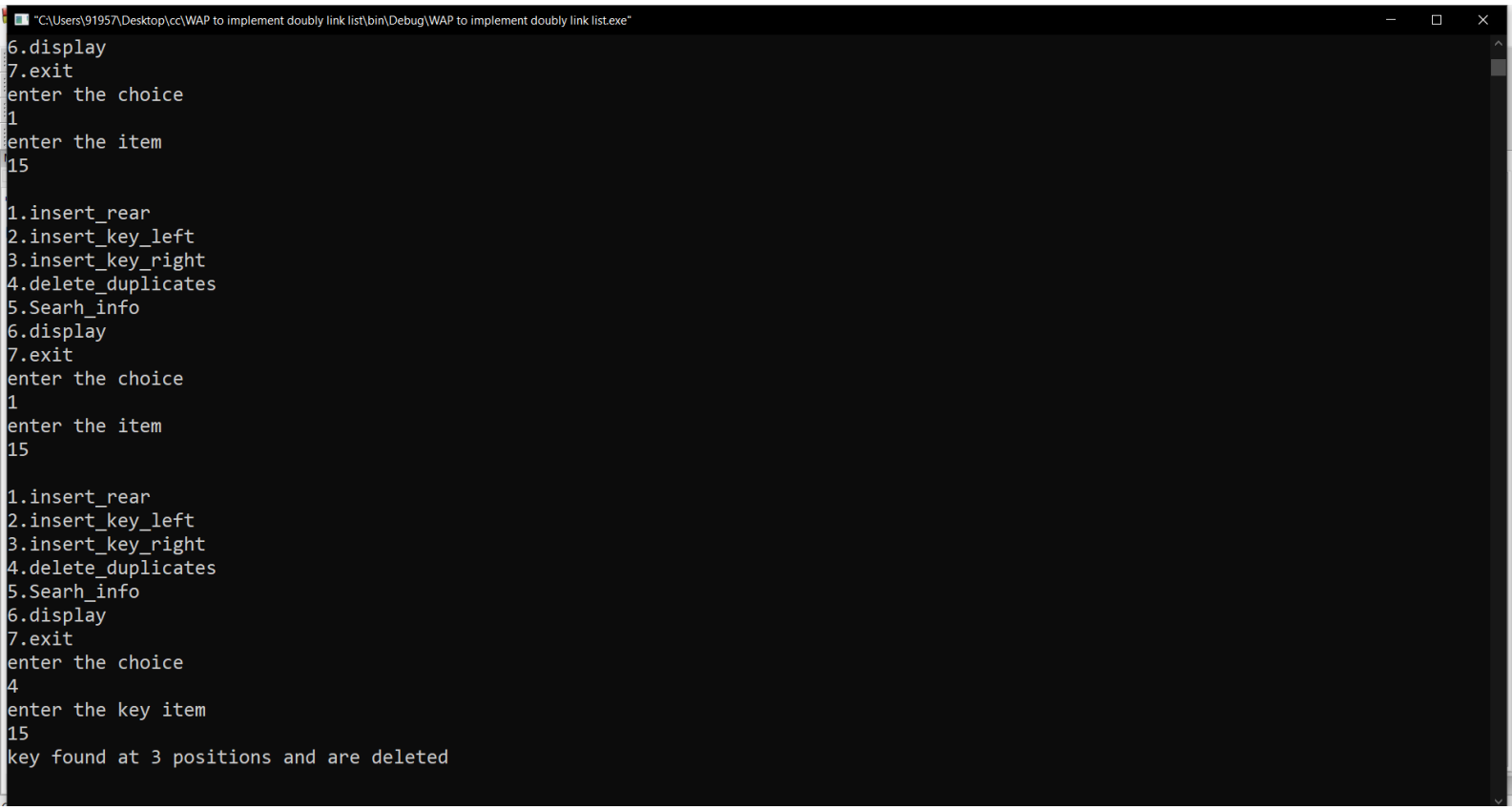
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
6
10
20
30

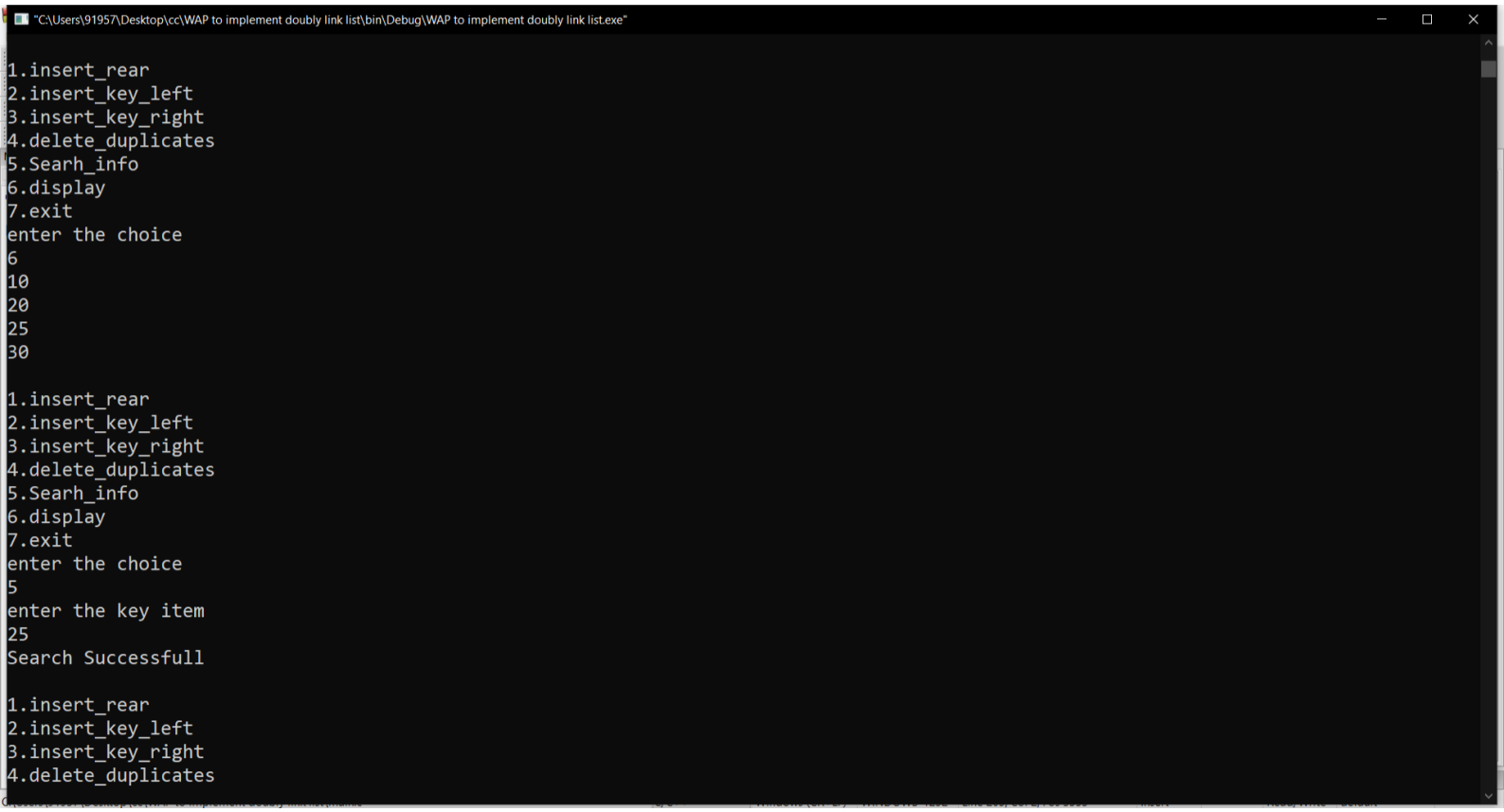
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
2
enter the key item
20
enter towards left of 20=15

1.insert_rear


"C:\Users\91957\Desktop\cc\WAP to implement doubly link list\bin\Debug\WAP to implement doubly link list.exe"
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
1
enter the item
10
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
1
enter the item
20
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit


"C:\Users\91957\Desktop\cc\WAP to implement doubly link list\bin\Debug\WAP to implement doubly link list.exe"
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
3
enter the key item
20
enter towards left of 20=25
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
6
10
15
20
25
30
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info


"C:\Users\91957\Desktop\cc\WAP to implement doubly link list\bin\Debug\WAP to implement doubly link list.exe"
6.display
7.exit
enter the choice
1
enter the item
15
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
1
enter the item
15
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
4
enter the key item
15
key found at 3 positions and are deleted


"C:\Users\91957\Desktop\cc\WAP to implement doubly link list\bin\Debug\WAP to implement doubly link list.exe"
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
6
10
20
25
30
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates
5.Searh_info
6.display
7.exit
enter the choice
5
enter the key item
25
Search Successfull
1.insert_rear
2.insert_key_left
3.insert_key_right
4.delete_duplicates