***Sorted LinkedList Insertion***

#include<iostream>

using namespace std;

int main()

{

int info[10] = {10,20,30,40,50,60,70};

int null =1000;

int link[] = {1,2,3,4,5,6,1000,8,9,1000};

int start = 0;

int avail = 7;

int newNode;

int save;

int item = 45;

int loc;

int ptr = start;

cout<<"\nlist befor insertion: ";

while(ptr != null)

{

cout<<info[ptr]<<" ";

ptr = link[ptr];

}

if(start == null || item < info[start])

{

loc = null;

}

else{

save = start; ptr = link[start];

while (ptr != null)

{

if(item < info[ptr])

{

loc = save;

break;

}

save = ptr;

ptr = link[ptr];

}

loc = save;

}

if(avail == null)

{

cout<<"Overflow!";

exit(0);

}

else{

newNode = avail;

avail = link[avail];

info[newNode] = item;

if(loc == null)

{

link[newNode] = start;

start = newNode;

}

else

{

link[newNode] = link[loc];

link[loc] = newNode;

}

}

ptr = start;

cout<<"\n\nlist after insertion: ";

while(ptr != null)

{

cout<<info[ptr]<<" ";

ptr = link[ptr];

}

return 0;

}