**PRACTICAL NO:08**

**INPUT**:

#include <iostream>

#include <string>

using namespace std;

class node {

public:

node \*next;

node \*prev;

int seat;

string id;

int status;

};

class cinemax {

public:

node \*head, \*tail,\*nullptr;

cinemax() {

head = nullptr;

tail = nullptr;

}

void create\_list();

void display();

void book();

void avail();

void cancel();

};

void cinemax::create\_list() {

head = new node;

head->seat = 1;

head->status = 0;

head->id = "null";

tail = head;

for (int i = 2; i <= 70; i++) {

node \*p = new node;

p->seat = i;

p->status = 0;

p->id = "null";

tail->next = p;

p->prev = tail;

tail = p;

}

tail->next = head;

head->prev = tail;

}

void cinemax::display() {

cout << "-----------------------------------------------------------------------" << endl;

cout << "Screen this way" << endl;

cout << "-----------------------------------------------------------------------" << endl;

node \*temp = head;

int count = 0;

do {

cout << (temp->seat < 10 ? "SO" : "S") << temp->seat << ": ";

cout << (temp->status == 0 ? "|\_\_\_|" : "|\_B\_|");

count++;

if (count % 7 == 0) {

cout << endl;

}

temp = temp->next;

} while (temp != head);

cout << endl;

}

void cinemax::book() {

int x;

string y;

cout << "\nEnter seat number to be booked (1-70): ";

cin >> x;

cout << "Enter your ID number: ";

cin >> y;

if (x < 1 || x > 70) {

cout << "Enter correct seat number to book (1-70)\n";

return;

}

node \*temp = head;

for (int i = 1; i < x; i++) {

temp = temp->next;

}

if (temp->status == 1) {

cout << "Seat already booked!\n";

} else {

temp->status = 1;

temp->id = y;

cout << "Seat " << x << " booked!\n";

} }

void cinemax::cancel() {

int x;

string y;

cout << "Enter seat number to cancel booking (1-70): ";

cin >> x;

cout << "Enter your ID: ";

cin >> y;

if (x < 1 || x > 70) {

cout << "Enter correct seat number to cancel (1-70)\n";

return;

}

node \*temp = head;

for (int i = 1; i < x; i++) {

temp = temp->next;

}

if (temp->status == 0) {

cout << "Seat not booked yet!\n";

} else {

if (temp->id == y) {

temp->status = 0;

temp->id = "null";

cout << "Seat cancelled!\n";

} else {

cout << "Wrong User ID! Seat cannot be cancelled!\n";

} }}

void cinemax::avail() {

cout << "\nAvailable Seats:\n";

node \*temp = head;

do {

if (temp->status == 0) {

cout << (temp->seat < 10 ? "SO" : "S") << temp->seat << " ";

}

temp = temp->next;

} while (temp != head);

cout << endl;

}

int main() {

cinemax obj;

obj.create\_list();

int ch;

char c = 'y';

while (c == 'y') {

obj.display();

cout << "\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout << "GAURAV KAMBLE MOVIES INDUSTRIES\n";

cout << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

cout << "Enter choice:\n1. Current seat status\n2. Book seat\n3. Available seats\n4. Cancel seat\n";

cin >> ch;

switch (ch) {

case 1:obj.display();

break;

case 2:obj.book();

break;

case 3:obj.avail();

break;

case 4:obj.cancel();

break;

default:cout << "Wrong choice input\n"; }

cout << "\nDo you want to perform any other operation (y/n)? ";

cin >> c; }

return 0;

}

**OUTPUT:**

-----------------------------------------------------------------------

Screen this way

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SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_\_\_|S53: |\_\_\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

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GAURAV KAMBLE MOVIES INDUSTRIES

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Enter choice:

1. Current seat status

2. Book seat

3. Available seats

4. Cancel seat

2

Enter seat number to be booked (1-70): 52

Enter your ID number: 52

Seat 52 booked!

Do you want to perform any other operation (y/n)? y

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Screen this way

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SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_B\_|S53: |\_\_\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

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GAURAV KAMBLE MOVIES INDUSTRIES

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Enter choice:

1. Current seat status

2. Book seat

3. Available seats

4. Cancel seat

2

Enter seat number to be booked (1-70): 53

Enter your ID number: 53

Seat 53 booked!

Do you want to perform any other operation (y/n)? y

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Screen this way

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SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_B\_|S53: |\_B\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

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GAURAV KAMBLE MOVIES INDUSTRIES

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Enter choice:

1. Current seat status

2. Book seat

3. Available seats

4. Cancel seat

3

Available Seats:

SO1 SO2 SO3 SO4 SO5 SO6 SO7 SO8 SO9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70

Do you want to perform any other operation (y/n)? y

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Screen this way

-----------------------------------------------------------------------

SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_B\_|S53: |\_B\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

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GAURAV KAMBLE MOVIES INDUSTRIES

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Enter choice:

1. Current seat status

2. Book seat

3. Available seats

4. Cancel seat

1

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Screen this way

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SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_B\_|S53: |\_B\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

Do you want to perform any other operation (y/n)? y

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Screen this way

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SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_B\_|S53: |\_B\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

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GAURAV KAMBLE MOVIES INDUSTRIES

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Enter choice:

1. Current seat status

2. Book seat

3. Available seats

4. Cancel seat

4

Enter seat number to cancel booking (1-70): 53

Enter your ID: 53

Seat cancelled!

Do you want to perform any other operation (y/n)? y

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Screen this way

-----------------------------------------------------------------------

SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_B\_|S53: |\_\_\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

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GAURAV KAMBLE MOVIES INDUSTRIES

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Enter choice:

1. Current seat status

2. Book seat

3. Available seats

4. Cancel seat

1

-----------------------------------------------------------------------

Screen this way

-----------------------------------------------------------------------

SO1: |\_\_\_|SO2: |\_\_\_|SO3: |\_\_\_|SO4: |\_\_\_|SO5: |\_\_\_|SO6: |\_\_\_|SO7: |\_\_\_|

SO8: |\_\_\_|SO9: |\_\_\_|S10: |\_\_\_|S11: |\_\_\_|S12: |\_\_\_|S13: |\_\_\_|S14: |\_\_\_|

S15: |\_\_\_|S16: |\_\_\_|S17: |\_\_\_|S18: |\_\_\_|S19: |\_\_\_|S20: |\_\_\_|S21: |\_\_\_|

S22: |\_\_\_|S23: |\_\_\_|S24: |\_\_\_|S25: |\_\_\_|S26: |\_\_\_|S27: |\_\_\_|S28: |\_\_\_|

S29: |\_\_\_|S30: |\_\_\_|S31: |\_\_\_|S32: |\_\_\_|S33: |\_\_\_|S34: |\_\_\_|S35: |\_\_\_|

S36: |\_\_\_|S37: |\_\_\_|S38: |\_\_\_|S39: |\_\_\_|S40: |\_\_\_|S41: |\_\_\_|S42: |\_\_\_|

S43: |\_\_\_|S44: |\_\_\_|S45: |\_\_\_|S46: |\_\_\_|S47: |\_\_\_|S48: |\_\_\_|S49: |\_\_\_|

S50: |\_\_\_|S51: |\_\_\_|S52: |\_B\_|S53: |\_\_\_|S54: |\_\_\_|S55: |\_\_\_|S56: |\_\_\_|

S57: |\_\_\_|S58: |\_\_\_|S59: |\_\_\_|S60: |\_\_\_|S61: |\_\_\_|S62: |\_\_\_|S63: |\_\_\_|

S64: |\_\_\_|S65: |\_\_\_|S66: |\_\_\_|S67: |\_\_\_|S68: |\_\_\_|S69: |\_\_\_|S70: |\_\_\_|

Do you want to perform any other operation (y/n)? N