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Purpose: Flowchart
for GoFish version 4

System Libraries
iostream, stdlib.h,
fstream, random,
time, string.h,
namespace

User
libraries
none

Global
constants
none

Function prototypes
void createDeck();
void shuffleDeck();
void showDeck();
void dealDeck();
void remCardsP1();
void remCardsComp();
int checkMatches();
void refillHand();
int checkDeck();
int checkCard();
void p1Turn();
void compTurn();

main
GoFishV4 program

srand(time(NULL));

a

Variable Declaration
string faces[],
deck[52], p1deck[7],
comDeck[7];
int p1match, cmatch,
cardRem, match,
randNum;
float deckCnt, p1Cnt,
comCnt;
bool chkDeck, chkP1,
chkComp, contp1,
contCom;
string card;
ifstream in_stream;
ofstream out_stream;

createDeck(faces,
deck);

shuffleDeck(deck);

dealDeck(deck,
p1deck, comDeck);

checkDeck(deck);

cout<<"Player 1 deck: ";

showDeck(p1deck);

contp1 == true;

false

true

match = 0;

checkMatches(p1deck);

refillHand(deck, p1deck,
cardRem);

checkDeck(deck);

cout<<"Player 1 deck: ";

showDeck(p1deck);

match > 0;

true

false

contp1 = true;
p1match += match;

contp1 = false;

contCom == true;

true

match = 0;

checkMatches(comDeck);

refillHand(deck, comDeck,
cardRem);

checkDeck(deck);

match > 0;

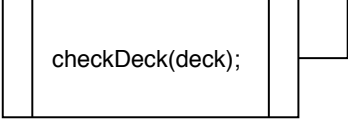
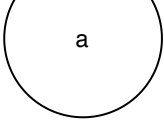
true

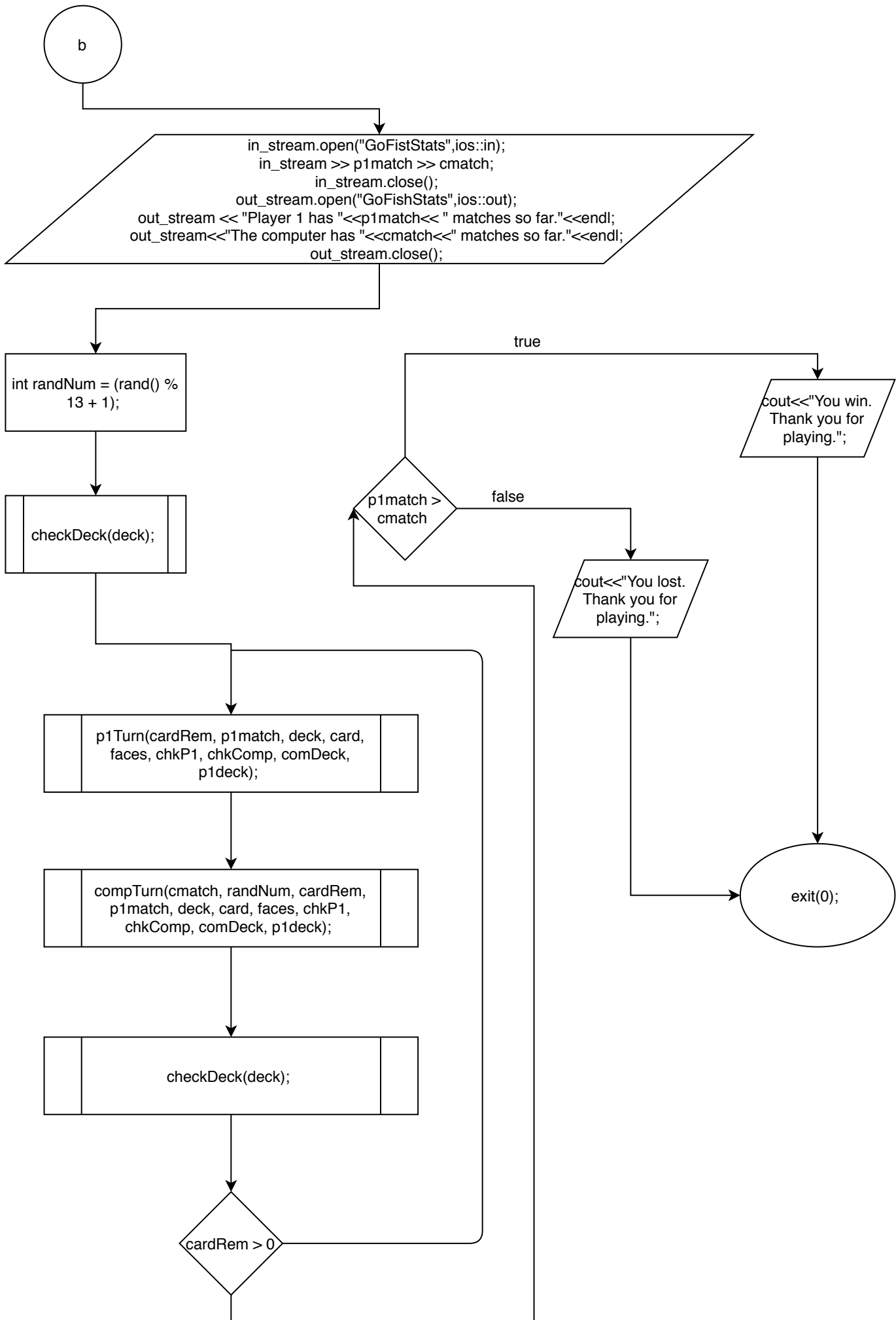
false

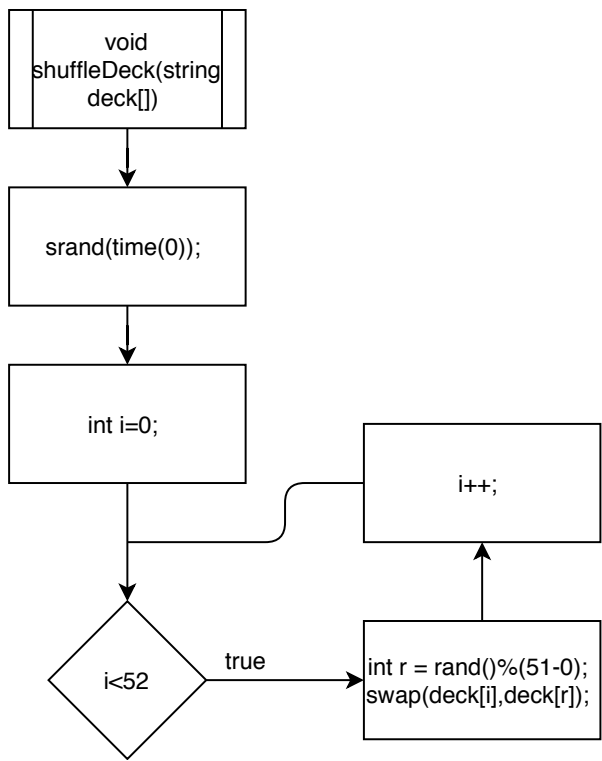
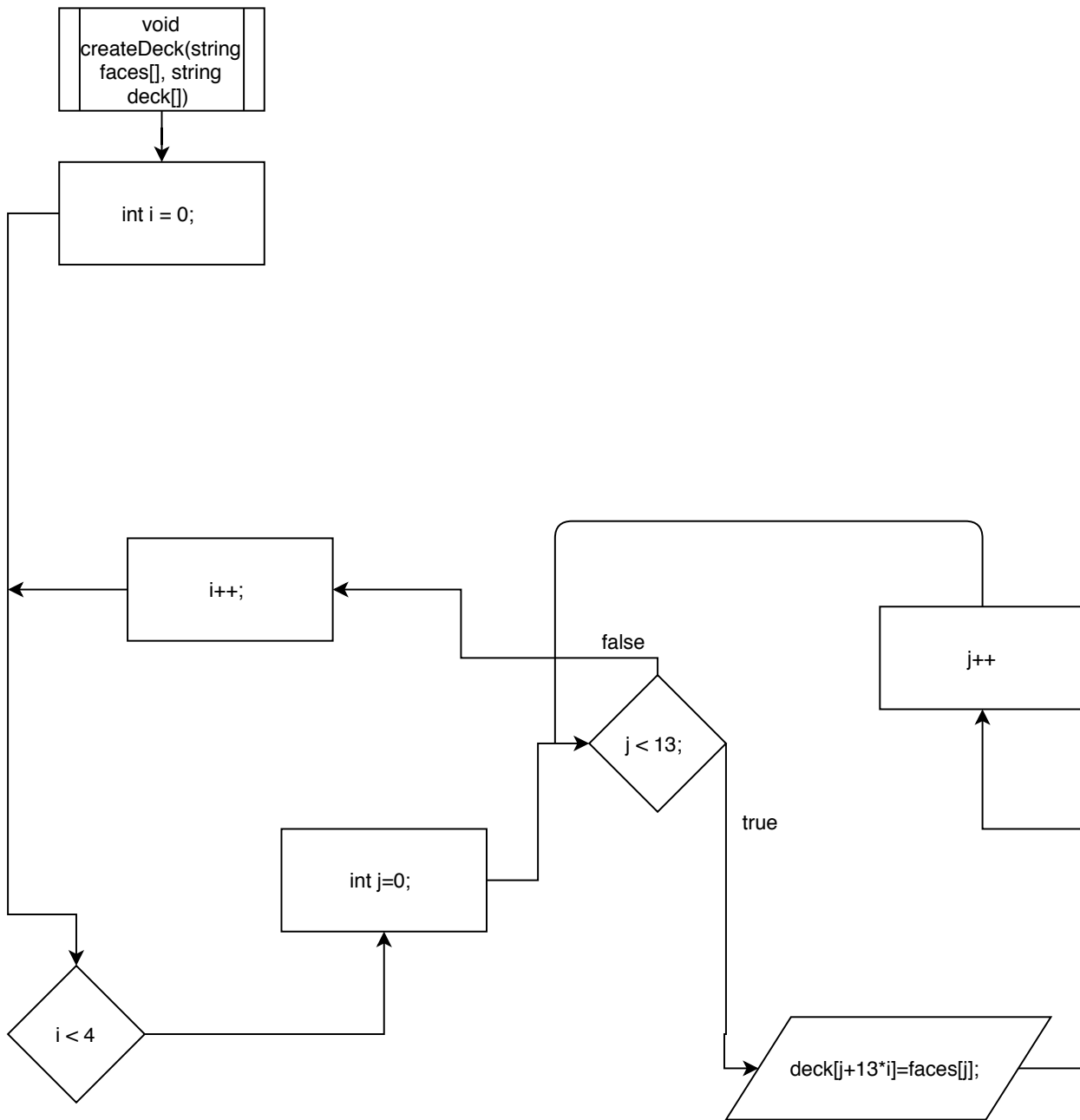
contCom = false;

contCom = true;
catch += match;

b








```
void dealDeck(string  
deck[], string p1deck[],  
string comDeck[])
```

```
int i=0;
```

```
i<7
```

true

```
i++;
```

```
p1deck[i] = deck[i];  
comDeck[i] = deck[i+7];  
deck[i] = "";  
deck[i+7] = "";
```

```
void showDeck(string  
deck[])
```

```
int i=0;
```

```
i<7
```

true

```
i++;
```

```
cout<<deck[i]<<" "
```

```
cout<<endl;
```

```
void  
remCardsP1(string  
deck[], string p1deck[])
```

```
int i=0;
```

```
i<13
```

true

```
i++;
```

```
deck[i] ==  
p1deck[i];
```

false

true

```
deck[i] = "";
```

```
void  
remCardComp1(string  
deck[], string  
comDeck[])
```

```
int i=0;
```

```
i<13
```

true

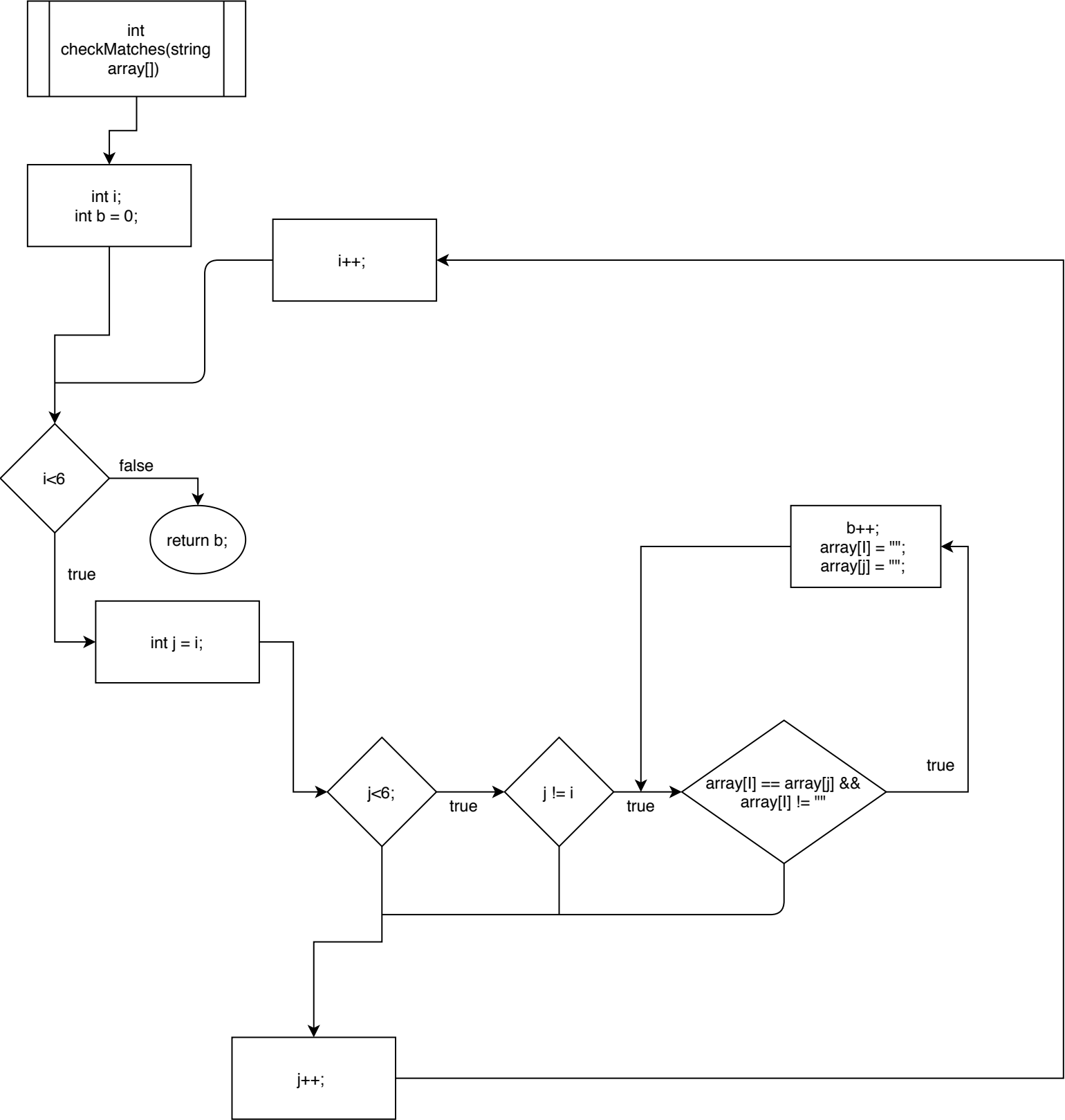
```
i++;
```

```
deck[i] ==  
comDeck[i];
```

false

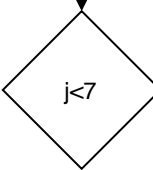
true

```
deck[i] = "";
```

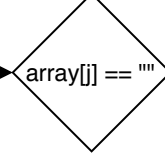




```
void refillHand(string deck[], string array[], int cardRem)
```

```
int i=cardRem;  
j = 0;
```



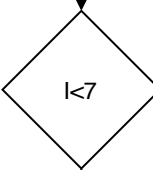
```
j++;
```



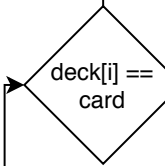
```
array[j] = deck[i];  
deck[i] = \"\";  
cardRem--;
```

```
int checkCard(string card, string deck[])
```

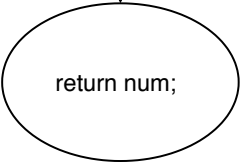
```
int num = 0;  
int i = 0;
```



```
i++
```

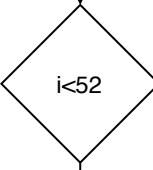


```
num++
```

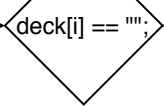


```
int checkDeck(string deck[])
```

```
int num = 0;  
int i = 0;
```



```
i++
```



```
num++
```

