

```
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// 00104266
// Project 2
```

[illegible]

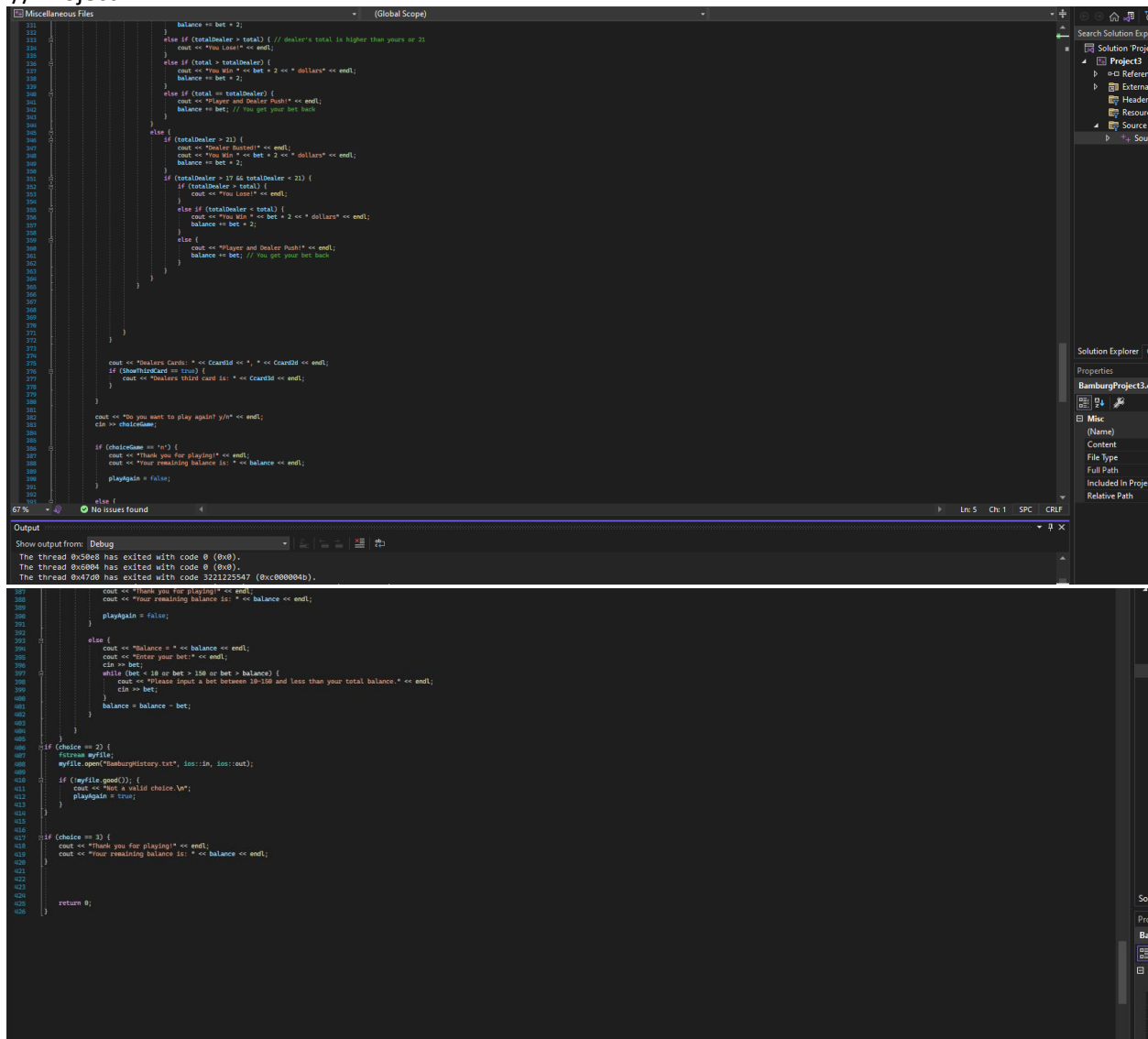
```
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// 00104266
// Project 2
```

```
BamburgProject3.cpp - X (Global Scope)
109
110     else if (cardSp == 10) {
111         CardSp = 'J';
112     }
113     else if (cardSp == 11) {
114         CardSp = 'Q';
115     }
116     else if (cardSp == 12) {
117         CardSp = 'K';
118     }
119     cardSp = 10;
120 }
121
122 else {
123     cardSp = 11;
124     CardSp = 'A';
125 }
126
127
128 if (cardSp < 9) {
129     cardSp = 1;
130     int num = cardSp - 2;
131     CardSp = 'A' + cardSp;
132 }
133
134 else if (cardSp > 10 && cardSp <= 12) {
135     if (cardSp == 9) {
136         CardSp = 'T';
137     }
138     else if (cardSp == 10) {
139         CardSp = 'J';
140     }
141     else if (cardSp == 11) {
142         CardSp = 'Q';
143     }
144     else if (cardSp == 12) {
145         CardSp = 'K';
146     }
147     cardSp = 10;
148 }
149
150 else {
151     cardSp = 11;
152     CardSp = 'A';
153 }
154
155
156 if (cardId < 9) {
157     cardId = 1;
158     int num = cardId - 2;
159     CardId = 'A' + cardId;
160 }
161
162 else if (cardId > 10 && cardId <= 12) {
163     if (cardId == 9) {
164         CardId = 'T';
165     }
166     else if (cardId == 10) {
167         CardId = 'J';
168     }
169     else if (cardId == 11) {
170         CardId = 'Q';
171     }
172 }
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```
// Jason Bamburg
// jbamburg@my.athens.edu
// 00104266
// Project 2
```

```
220         else if (cardId == 11) {
221             CardId = 'Q';
222         }
223         else if (cardId == 12) {
224             CardId = 'K';
225         }
226         CardId = 18;
227     }
228     else {
229         CardId = 11;
230         CardId = 'A';
231     }
232     total = cardUp + cardD;
233     totalDealer = cardId + cardD;
234     cout << "Here are your first cards:" << CardUp << ", " << CardDp << endl;
235     cout << "Here are the number values of your cards: " << cardUp << ", " << cardDp << ", " << endl;
236     cout << "Your total is: " << total << endl;
237     cout << "Dealers Cards: " << " ", << CardId << endl;
238     cout << "Dealers Total is: " << CardId << endl;
239     if (total == 21) {
240         if (total == 21 && totalDealer == 21) {
241             cout << "The dealer's cards are: " << CardId << ", " << CardDp << endl;
242             cout << "You hit blackjack! You win!" << endl;
243             balance = balance + (bet * 2);
244         }
245         else if (total == 21 && totalDealer == 21) {
246             cout << "Both the dealer and the player got 21. No one wins!" << endl;
247             balance = balance + bet;
248         }
249         else {
250             if (totalDealer == 21) {
251                 cout << "Dealer has 21! Dealer wins!" << endl;
252             }
253             else {
254                 //Hit your, dealer's
255                 cout << "Hit? Yes(y) No(n)" << endl;
256                 cin >> Hit;
257                 if (Hit == 'y') { //Hit
258                     total = cardUp;
259                     cout << "Here are your cards: " << CardUp << ", " << CardDp << ", " << CardDp << endl;
260                     cout << "Your total is: " << total << endl;
261                     if (total > 21) {
262                         cout << "You Lose!" << endl;
263                     }
264                     else if (totalDealer < 17) {
265                         totalDealer = cardDp;
266                         cout << "Dealer hits!" << endl;
267                         ShowThirdCard = true;
268                     }
269                     if (total == 21) {
270                         if (totalDealer > 21 || totalDealer < 21) {
271                             cout << "You Win " << bet * 2 << " dollars" << endl;
272                             balance += bet * 2;
273                         }
274                     }
275                     else if (total == totalDealer) {
276                         cout << "Player and Dealer Push!" << endl;
277                         balance += bet;
278                     }
279                 }
280                 else if (total < 21) { // If we have less than 21
281                     if (totalDealer == 21) {
282                         cout << "Dealer Got BlackJack, Dealer Wins!" << endl;
283                     }
284                     if (totalDealer > 21) {
285                         cout << "You Win " << bet * 2 << " dollars" << endl;
286                         balance += bet * 2;
287                     }
288                     if (totalDealer > total && totalDealer < 21) {
289                         cout << "Dealer Wins!" << endl;
290                     }
291                     if (total > totalDealer) {
292                         cout << "You Win " << bet * 2 << " dollars" << endl;
293                         balance += bet * 2;
294                     }
295                     if (total == totalDealer) {
296                         cout << "Player and Dealer Push!" << endl;
297                         balance += bet; // You get your bet back
298                     }
299                 }
300             }
301         }
302     }
303     else if (Hit == 'n') { // Not Hitting
304         if (totalDealer < 17) {
305             totalDealer = cardDp;
306             cout << "Dealer Hits!" << endl;
307             ShowThirdCard = true;
308             if (totalDealer == 21) {
309                 cout << "You Win " << bet * 2 << " dollars" << endl;
310                 balance += bet * 2;
311             }
312             else if (totalDealer > total) { // Dealer's total is higher than yours or 21
313                 cout << "You Lose!" << endl;
314             }
315             else if (total > totalDealer) {
316                 cout << "You Win " << bet * 2 << " dollars" << endl;
317                 balance += bet * 2;
318             }
319         }
320     }
321 }
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```

// Jason Bamburg
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// 00104266
// Project 2



```
311         balance -= bet * 2;  
312     }  
313     else if (totalDealer > total) { // Dealer's total is higher than yours or 21  
314         cout << "You lost!" << endl;  
315     }  
316     else if (total > totalDealer) {  
317         cout << "You win" << bet * 2 << " dollars" << endl;  
318         balance += bet * 2;  
319     }  
320     else if (total == totalDealer) {  
321         cout << "Player and Dealer Push!" << endl;  
322         balance = bet; // You get your bet back  
323     }  
324 }  
325  
326 else {  
327     if (totalDealer > 21) {  
328         cout << "Dealer Bust!" << endl;  
329         cout << "You win" << bet * 2 << " dollars" << endl;  
330         balance += bet * 2;  
331     }  
332     if (totalDealer > 17 && totalDealer < 21) {  
333         if (totalDealer > total) {  
334             cout << "You lost!" << endl;  
335         }  
336         else if (totalDealer < total) {  
337             cout << "You win" << bet * 2 << " dollars" << endl;  
338             balance += bet * 2;  
339         }  
340         else {  
341             cout << "Player and Dealer Push!" << endl;  
342             balance = bet; // You get your bet back  
343         }  
344     }  
345 }  
346 }  
347  
348 cout << "Dealers Card: " << CardId << ", " << CardId << endl;  
349 if (ShowThirdCard == true) {  
350     cout << "Dealers third card is: " << CardId << endl;  
351 }  
352  
353 cout << "Do you want to play again? y/n" << endl;  
354 cin >> choiceGame;  
355  
356 if (choiceGame == 'n') {  
357     cout << "Thank you for playing!" << endl;  
358     cout << "Your remaining balance is: " << balance << endl;  
359     playAgain = false;  
360 }  
361 }  
362  
363 else {  
364     cout << "Thanks you for playing!" << endl;  
365     cout << "Your remaining balance is: " << balance << endl;  
366     playAgain = true;  
367 }  
368 }  
369  
370 while (bet < 10 || bet > 150 || bet > balance) {  
371     cout << "Please input a bet between 10-150 and less than your total balance." << endl;  
372     cin >> bet;  
373 }  
374  
375 balance = balance - bet;  
376 }  
377 }  
378  
379 if (choice == 2) {  
380     fstream myFile;  
381     myFile.open("BamburgHistory.txt", ios::in, ios::out);  
382  
383     if (!myFile.is_open()) {  
384         cout << "Not a valid choice.\n";  
385         playAgain = true;  
386     }  
387 }  
388  
389 if (choice == 3) {  
390     cout << "Thank you for playing!" << endl;  
391     cout << "Your remaining balance is: " << balance << endl;  
392 }  
393  
394 return 0;  
395 }
```

Output

Show output from: Debug

The thread 0x50E8 has exited with code 0 (0x0).
The thread 0x5004 has exited with code 0 (0x0).
The thread 0x4720 has exited with code 321225547 (0xc000004b).

// Jason Bamburg
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// 00104266
// Project 2
FLOWCHART

