

What is Blackjack?

- Game of chance
- Win by having a hand close to 21 or 21 but not over
- Gameplay: Player and dealer is dealt 2 cards and player must decide to hit or stand.



Tester: GETS a very, very attractive 20 sek (cash) compensation



Challenges we faced

... There were a few!

Challenges in planning

The simple complexities of Blackjack

Do we want to show strings J, Q, K, A for integers 10 and 11?

Split and double down functions?

Bank?

Some functions too simple...?

Too many functions that did one thing

Breaks... So many breaks!

Many possibilities when the game could stop

Blackjack or bust for both the player and dealer turns

Turns are while loops that need to be broken

Many if statements created many indents and many breaks

Very difficult to keep track of when fixing bugs

Scientific Method: Trial and Error

When we could not understand why our code was working or when it was not working.

Try to break the game to find flaws.



Gamblers blues

Testing a game of chance means testing ALL outcomes

Some outcomes happen often

Some outcomes happen rarely

Some outcomes happen almost never

Still not sure if there is a bug somehow somewhere...

Highlights

Ace function

Worked really well from the beginning

We initially had another plan: -10 from hand but...

Good logic since we consider index position





Function worked well from the beginning

Utilized list logic to remove each drawn card from the deck

Meaning yes, you could count cards... But not really.

Rewriting the logic

Rare bugs in our second version made us rewrite the code
Used almost the "same" logic but with simplified functions
... Failsafes included!

Easier to read, easier to understand, easier to bugfix and easier to add more functions and logic

Improvements in future developments

The simple complexities of Blackjack

Add ability to split and double

More than one player?

Variables and inputs

Transfer credits across games and ability to add more

Able to enter string into integer inputs

"Realistic" card draw and persistent deck

Cheat easter egg!