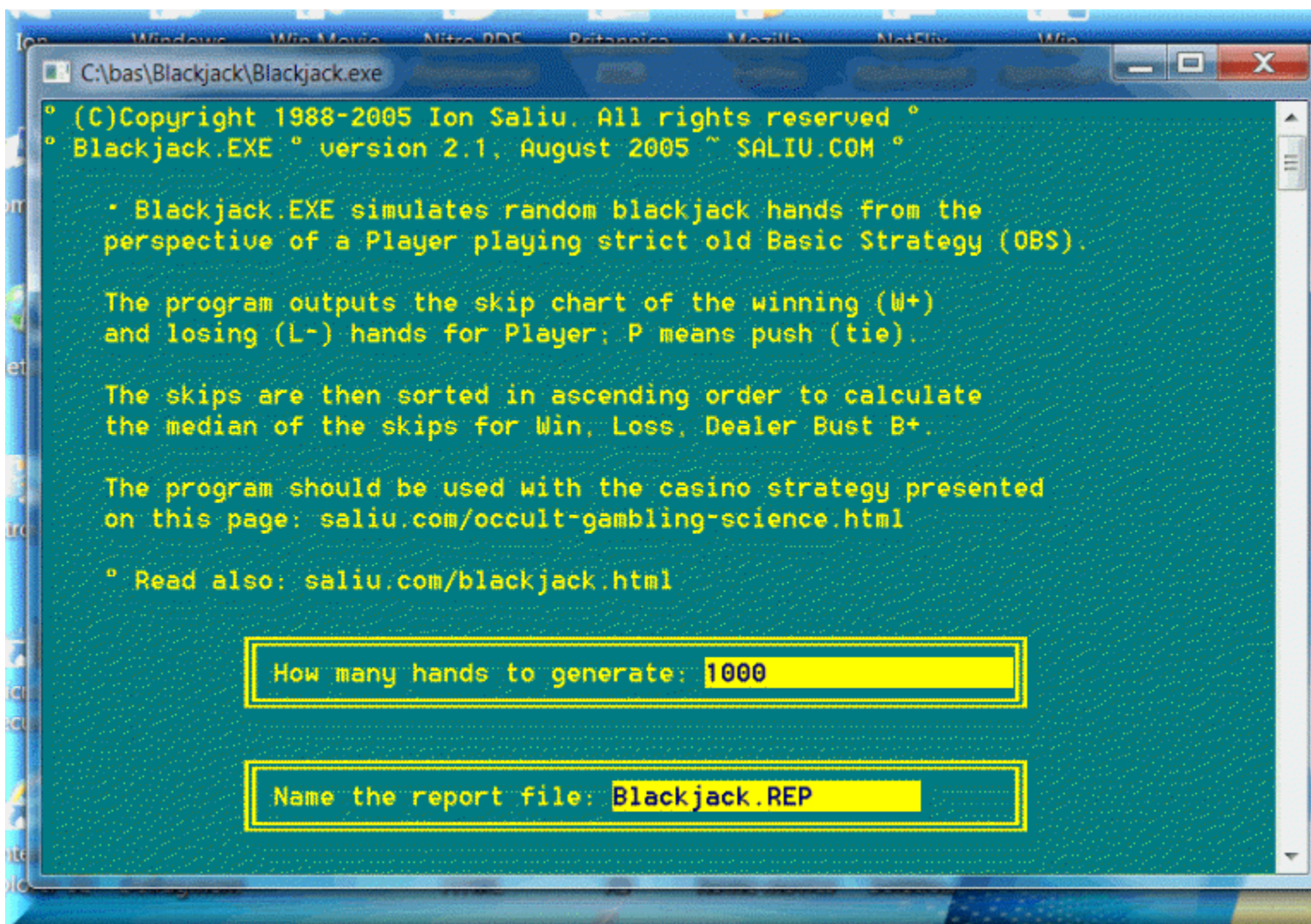# Ion Saliu's Blackjack System based on Fundamental Formula of Gambling and Martingale Progressions

I founded my blackjack system on the Fundamental Formula of Gambling (FFG). My full system, as used with a notebook, keeps track of several streaks: Win (W), Loss (L), Dealer Bust (DB), Player Bust (PB), Dealer Blackjack (DJ), Player BJ (PJ). In my trimmed down version, without the notebook, I only keep track of two streaks: Win (W+), Loss (L-). This is a mental gambling system — the records are kept in my memory. As such, the mental gambling system requires discipline. Unfortunately, I didn't apply my gambling system with the required discipline in 2004.

C:\bas\Blackjack\Blackjack.exe

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° Blackjack.EXE ° version 2.1, August 2005 ~ SALIU.COM °

· Blackjack.EXE simulates random blackjack hands from the
perspective of a Player playing strict old Basic Strategy (OBS).

The program outputs the skip chart of the winning (W+)
and losing (L-) hands for Player; P means push (tie).

The skips are then sorted in ascending order to calculate
the median of the skips for Win, Loss, Dealer Bust B+.

The program should be used with the casino strategy presented
on this page: saliu.com/occult-gambling-science.html

° Read also: saliu.com/blackjack.html

How many hands to generate: 1000

Name the report file: Blackjack.REP

*My count always starts at: **0 - 0***. *I say mentally **zero – zero**.*
*~ The first number represents my **consecutive losses**;*
*~ The second number represents my **consecutive skips without two or more consecutive wins**. This parameter is trickier to grasp. I still have difficulties keeping accurate track of it mentally. It is much easier on paper.*

> *If I lose my first hand, the count becomes **1 / 0**. I say mentally **one – zero**. If I lose also the next hand, the count becomes **2 / 0**. I say mentally **two – zero**.*

*If I win my first hand, the count becomes **0 / 0-and-a-half**. I say mentally **zero – zero-and-a-half**. The **half** simply indicates that the parameter is still running. If I lose the following hand, the count becomes **1 - 1**. I say mentally **one – one**. That means I lost one consecutive hand; I also have a streak of one without winning two hands in a row.*

> *If I win my first hand, the count becomes **0 - 0 and a half**. I say mentally **zero – zero and a half**. If I win also the following hand, the count becomes **0 - 0**. I say mentally **zero – zero**. That means I have no consecutive losses; I also won two hands in a row. Every time I win 2 consecutive blackjack hands, the second count is automatically set to **0**. The mental count becomes **something – zero**.*

*If I win my first hand, the count becomes **0 / 0 and a half**. I say mentally **zero – zero and a half**. If I lose the following hand, the count becomes **1 - 1**. I say mentally **one – one**. That means I lost one consecutive hand; I also have a streak of one without winning two hands in a row. I lose also the following hand. The count becomes **2 & 1**. I say mentally **two – one**.*

> *I win the following hand. The count becomes **0 - 1 and a half**. I say mentally **zero – one and a half**. I lose the following hand. The count becomes **1 & 2**. I say mentally **one – two**. It means I lost one consecutive hand; I also have a streak of two without winning two hands in a row. That is, in two consecutive situations, my win was not followed immediately by another win.*

*Let's say I won one blackjack hand. The count is **0 - 0 and a half**. I lose the following three blackjack hands. The count is **3 - 1**. I say mentally **three – one**. I win the following hand. The count becomes **0 - 1 and a half**. I say mentally **zero – one and a half**.*

*I lose the next two blackjack hands. The count is **2 - 2**. I say mentally **two – two**. If I lose the very next hand, the left count increases by **one**, while the right count remains unchanged. Mentally: **three – two**.*

*I win the following hand. The count becomes **0 - 2 and a half**. I say mentally **zero – two and a half**. I lose the next four blackjack hands. The count is **4 - 3**. I say mentally **four – three**.*

Every time I lose a blackjack hand, the left count increases by one. Every time I win a blackjack hand, followed immediately by another win, the right count is set to 0. Every time I win a blackjack hand, followed immediately by a loss, the right count increases by a half. And so on ... and so forth ...

*With record-keeping on paper (notebook), I track the entire session. I can see the streaks of all lengths. I know I will **lose** 4, 5, 6, 7 ... more blackjack hands in a row. I know also I will **win** 4, 5, 6, 7 ... more blackjack hands in a row. I look at the past 30-50 blackjack hands and decide that I should expect soon a 4-5 winning streak. Or, I shouldn't expect a losing streak longer than 4-5, because I already had a longer losing streak. There is no **gambler's fallacy**, really; or **reversed gambler's fallacy**. Read the pages in the **Resources** section for undeniable mathematical facts.*

*I noticed that the second count is less streaky than the first one. That is, I win more regularly two (or more) hands in a row. I keep that in mind when I martingale my streaks. The **Fundamental Formula of Gambling** tells me that I win at least once in 7 hands with a degree of certainty of 99%.*

*I martingale more aggressively at the beginning of the blackjack game. I martingale the first count when it reaches 4. Since the second parameter is more consistent, I martingale it after it reaches 3. I go up to 7 in both cases (2-4-8 and 2-4-8-18). I stop at 7. My probability software Streaks.EXE proves the more aggressive betting at the beginning of a blackjack (or gambling) session. The **degree of certainty DC** for **long streaks** (losing or winning streaks) is **lower**.*

I become more cautious after 100 blackjack hands or so. I martingale the first count after it reaches 6 (or 5 earlier in the game) and the second count after it reaches 5 (or 4 earlier in the game). I go as much as I can or allowed. If I sense that the streak is real bad, especially inside the same shoe, I stop the Martingale after 7, and start another one with 3 units after the previous streak ends.

The advantage at blackjack is higher payouts for blackjacks and double downs. After long losing streaks, the winnings come quite often as blackjacks or double down hands. I also try to disturb long streaks that are favorable to the dealer. There are shoes when the dealer seems to always have blackjack, or 10-10, or never breaking hands.

Some players play an extra betting box, if available. Others sit out one hand. Personally, I try not to play by the book. If playing by the book helped the dealer in this shoe, I figure I'll break the rules this hand and thus hope to break dealer's hot streak. As I said before, I split two tens against dealer's 4, 5, or 6. I also hit 12 against 4 or 5 or 6 in those situations. Or I stand on low count against dealer's 7-A. What the heck! Unfortunately, some ordinary blackjack players get mad at me when I do that. Point is, it's my money and I play the way I want to. This is going to be a strict rule for me from now on.

• I released in April 2005 blackjack software to analyze streaks: Blackjack.exe, BJAQK.EXE. BJAQK.EXE stands for: Best on Jacks Aces Queens Kings – and all other cards. See image above.

The blackjack streaks software is available from the *Software Download Site*, software category 5.5. The program is a probability and statistical analyzer of thousands of Black Jack hands from the perspective of a strict blackjack *old basic strategy (OBS)* player. This program is a great complement to the free blackjack strategy presented on this page.

The software generates truly random blackjack hands based on the probability of winning/losing/pushing from the standpoint of applying strict basic strategy rules. The software user can choose to generate and automatically analyze any number of hands, from dozens to millions (even billions, if the PC is out of this world!) The analysis is saved to a text file that can be viewed in any text editor. The report is so logically organized that even a modest blackjack player will comprehend it.

No further support is available for free. Big-time casino gamblers (I call *kokodrilos*), who want much more, can't have it both ways: for free and also win big.

• • Alternatively, you may consider the *Fibonacci progressions (sequences)* as well. In the traditional *Fibonacci series*, the Nth term is the sum of the two preceding terms. 1, 1, 2, 3, 5, 8, 13, 21, etc. I also devised series where:
~ the Nth term is the sum of the three preceding terms;
~ the Nth term is the sum of the four preceding terms;
~ the Nth term is the sum of the five preceding terms.

I also created software to generate *Fibonacci sequences*. The programs also calculate the ratio between consecutive *Fibonacci numbers* and compare the result to the *Golden Number (Divine Proportion)*. Go to this page: Fibonacci Progressions: Mathematics and Gambling.

The main blackjack pages at SALIU.COM –

Blackjack System, Fundamental Formula of Gambling, Martingale Progressions

Blackjack, Probability, Odds, Basic Strategy, Tables, Card Counting, Mathematics