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This program help solve the Microsoft Win7 & Vista "spider solitaire" game. If you have windows 10 you will have to Google for and download the install. Note that the original game does not have the debug feature to save from the menu bar. You will have to download and install that feature if desired. Spider solitaire allows the game to be saved when you exit. Rarely, but it does happen, one cannot win the game if the wrong first move has been made and the program saved. With this program one can consistently win over 85% of all games easily.

The program looks for the games saved data file at *c:\users\username\Saved Game\Microsoft Games\Spider Solitaire*. If not there it may try the D drive. If you are using OneDrive it may have problems finding stuff there. You can always put the executable in the folder that has the Spider saved file. Here is a typical listing of what is in the spider save folder after running this program:

Directory of D:\Users\Josep\Saved Games\Microsoft Games\Spider Solitaire

```
05/13/2018 08:13 AM      3,792 adeck.txt
05/13/2018 08:13 AM 165,767 DEAL1_1_Spider Solitaire.SpiderSolitaireSave-ms
05/13/2018 08:13 AM 165,767 DEAL1_2_Spider Solitaire.SpiderSolitaireSave-ms
05/13/2018 08:13 AM 165,763 DEAL1_3_Spider Solitaire.SpiderSolitaireSave-ms
05/13/2018 08:13 AM 165,767 DEAL1_4_Spider Solitaire.SpiderSolitaireSave-ms
05/13/2018 08:13 AM 165,767 DEAL1_Spider Solitaire.SpiderSolitaireSave-ms
05/13/2018 08:13 AM 165,843 FirstEmptyColumn.SpiderSolitaireSave-ms
05/13/2018 08:13 AM   16,344 Spider Solitaire.mov1
05/03/2018 12:17 AM 156,336 Spider Solitaire.SpiderSolitaireSave-ms
05/13/2018 08:13 AM 35,950 Spider Solitaire.xml
```

DEALxxxx These are spider games that start with the best board position. The ones numbered 1,2,3,4 are variations that are not as good as the DEAL1 but might be useful. The one without the prefix "DEAL" is the original game you saved. FirstEmptyColumn is the very first game deck with an empty column.

XXX.mov1 Is the list of moves that produced the 5 possible DEAL1 hands. The best hand is always the previous deal and is calculated after all subsequent hands hands, up to 512, are evaluated. Only the first 12 are shown, if that many exist.

adeck is the exposed deck of cards. The cards face up are in capital letters. Lower case letter are normally not visible.

ah is ace of hearts and is face down. 10D is the 10 of diamonds and is face up.

The below image is a fresh game. Right most column is the remaining stack of cards.

The card 9S will go into column 10 when the last deal is made. When running, the program displays the working deck periodically.

If an empty column is found then that image is immediately displayed and will be one of the "DEAL" hands.

adeck - Notepad

File	Edit	Format	View	Help								
	1	2	3	4	5	6	7	8	9	10		
	kh	4h	8d	jh	10d	5h	8c	4s	10s	6d	9S	10
	6h	9d	7d	ac	jd	qs	4d	3s	3d	2h	JC	9
	10d	kh	3s	5d	6c	10h	5s	ad	ah	qc	QS	8
	6s	2s	qc	qh	7d	9c	2c	3h	kc	qd	5S	7
	5d	ks	as	8h	JS	9H	8S	7C	6D	6S	3D	6
	KD	JH	AD	7S							4C	5
											7H	4
											AC	3
											AS	2
											10H	1
											4D	10
											KC	9
											JC	8
											5C	7

39676 discarded duplicate moves

There were 56 different arrangements
that had one empty column. 2 and 3
column possibilities were not found

Q(15) 652 dups:39676 limit:20k i:8855 et:4s dif:11145 1c:56 2c:0 3+
% Symtables - index: 2.5 and table: .56 MCptr:20001

0 7S 4-7 10
1 6S 0-7 23
2 QD 0-1 32
3 JS 5-0 90
4 7D 5-4 92
5 6C 5-8 94
6 JD 5-1 106
7 0D 5-1 135

kh	4h	8d	jh	5h	8c	4s	10s	6d	10
6h	9d	7d	ac	qs	4d	3s	3d	2h	9
10d	kh	3s	5d	10h	5s	ad	ah	QC	8
6s	2s	qc	qh	9c	2c	3h	kc	JS	7
5d	ks	as	8H	9H	8S	7C	6D		6
KD	JH	AD	7D		7S	6C			5
QD					6S				4
JD									3
10D									2

ID: 21170 From: 0 NumMoves:8 Score:662 RemStacks:5

118	1	1	3	500	1	21	12	1	4	662
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Calculated value for each move

7S 4-7 means the 7 of Spades
was moved from column 4 to
column 7 and that move had
a value of 10 points.

Rows and column start with 0

as - Ace of Spades is face down

AD - Ace of Diamonds is face up

Value of each column. 500 points for each empty column
the overvalue for this desk is 662 points

