

A glossary of PC resources over space and time.

PC Num

Formula:

- Empty Board: $\text{mod}(5 * \text{BLOCKS}, 7) + 1$
- Non-Empty Board: $\text{mod}(5 * (\text{BLOCKS} - (\text{MINOS} + (\text{mod}(\text{MINOS}, 4) * 5) / 4)), 7) + 1$
 - If the number of minos is odd there's no PC so formula fails to give correct output

Algorithm:

Math Stuffs

Easier to calculate mid game if you know your multiples of 7
Also needs to be empty board with BLOCKS a multiple of 5

If BLOCKS ends with 5:

Result = BLOCKS - 35

Else:

Result = BLOCKS

PC num = $\text{Mod}(\text{Result}, 70) / 10 + 1$

Parity Based

Number of LJ or vertical T's in any box is even.

Unless the box is made entirely of O's and I's, the box will have 2 LJ or vertical T's.

The LJ or vertical T's are on the left and right edge of that box.

Board is only pc-able only if the number of minos is even.

If the number of minos is not a multiple of 4, an odd height PC must be performed.

Mino Distance Based

$O + \text{Vertical SZ} + \text{Horizontal I} + 1/2(\text{Left Tail LJT} - \text{Right Tail LJT}) = \text{Even}$

$O + \text{Horizontal SZ} + \text{Vertical I} + 1/2(\text{Up Tail LJT} - \text{Down Tail LJT} - \text{Clearshift}) = \text{Even}$

$\text{SZI} + \text{Left-Up Tail LJ} - \text{Right-Down Tail LJ} + 1/2(\text{Left/Up Tail T} - \text{Right/Down Tail T} - \text{Clearshift}) = \text{Even}$

Where Horizontal = Spawn Orientation and 180

Vertical = Cw and Ccw

Tail direction = the direction the fourth square of LJT is pointing to (other three squares forming a 3x1 shape)

Clearshift = number of unfilled squares underneath a line clear, per individual line clear

PC Setups

General PC Setups

Name	Link	Notes	Credits
Knewjade's Best Chance Field	https://knewjade.github.io/best-chance-field/	Setups that good for actual game as they are generalized for any queue	Knewjade
Knewjade's Perfect Map	https://knewjade.github.io/perfect-map/	Percent for any placement of a piece in any piece with generalized for any queue	Knewjade
Best Field v2	https://docs.google.com/spreadsheets/u/2/d/1DZvKtE84P6kh773m3k23WNqeLiE4kD-P2WhStCQrf-8/edit?pli=1#gid=223044658	A human made best field of a couple of the pc's	JimothyJimothy Marfung37
Common PC Setups	https://docs.google.com/document/d/19NgsSMKfbu57xu2DPPEr2APZHXxbnufla2xl6tBT7Vo/edit?usp=sharing	A glossary of freestyling setups with names (that should be changed by the community one day)	Avior/Bladewood

1st

Name	Link	Notes	Credits
Perfect Clear Opener Four.lol	https://four.lol/perfect-clears/opener		No clue Davdev
1st PC pattern	https://docs.google.com/spreadsheets/d/1sSrG3BpEr1UjtJ_c-W8XfPJds41RLPUR/edit#gid=1761582200	Setups and search function for 1st pc queues. (I don't believe it's exactly best chance but close)	Nilgiri

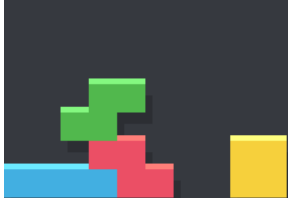
2nd

Name	Link	Notes	Credits
2nd PC Advance	https://docs.google.com/document/d/17ABWvCDruGB1P92wPgP8NIPmqJJJoEIS0Vfh4RSGms8w/edit?usp=sharing	2nd PC setups to maximize b2b PC's	Marfung37
Queue-Based Perfect Clearing: 2nd	https://docs.google.com/document/d/1pgMeHopKipjdp5pmCiwcLk6vKXzdFWaHS8foKfQwWZ4/edit?usp=sharing	Setups for specific queues to try to maximize save o/t	stickmancomic
Duplicate Piece 2nds	https://docs.google.com/spreadsheets/d/1OHON4x7E67MihAbpehntmOTQ4_6a2jh4PFHAP1f92ak/edit?usp=sharing	Setups for when a given piece is smuggled from 1st/8th PC into 2nd	ham smolfeesh

3rd

Name	Link	Notes	Credits
S setups	https://docs.google.com/spreadsheets/d/1OfHnvI7CFwWrV2XBMWxFdsrxmuvTyYgX1qNa9yy-qyw/edit#gid=229778432	Best Field 4 piece save S	Knewjade
Perfect Clear Setups	http://tinyurl.com/perfectclearsetups	Setups for 1st-3rd but most useful for 3rd	Lolly

4th

Name	Link	Notes	Credits
4th Four.lol	https://four.lol/perfect-clears/4th		JimothyJimothy Cosin307 Davdev (probably more)
TISZO setup		Including mirror to set up 98.12% (4945/5040)	Marfung37
Hard 4th setups (4piece +T)	https://docs.google.com/document/d/1INHwXK02nYB2bw6J9V4HuPNvHomKqnIfW7IH_AQ1za0/edit?usp=sharing		orangejuice

5th

Name	Link	Notes	Credits
5th pc 3 piece setups	https://docs.google.com/spreadsheets/u/3/d/1NrUrTMPIAgUMRmM1GkK3Mh_dvPzdAGkhfZLwZMhOIQ/edit#gid=0		Hummus
5th pc 100% 7p setups	https://docs.google.com/spreadsheets/d/1nHr50_2ooyqN934tnJsez2ICuRHYowBxyVRGqBD3NCw/edit?usp=sharing		smolfeesh, stickmancomic

6th

Name	Link	Notes	Credits
6th PC 4 piece setup	https://docs.google.com/spreadsheets/d/1Jint7sZx5idVxSopql8PheVvOoygHykfFBFKUCA9B2A/edit?usp=sharing		stickmancomic
6th PC 3 piece setup	https://docs.google.com/spreadsheets/d/1GkQmZNzajwQA6twqQZs17_y_F8kk4az1Y85pVjrPVI/edit#gid=1726957623		hummus

7th

Name	Link	Notes	Credits
7th Four.lol	https://four.lol/perfect-clears/7th/		No clue Davdev
7th with duplicate pieces	https://docs.google.com/spreadsheets/d/1L_fGkXOP95BNT4G9P-blceZwUiLIF8ocNLBwTqrzAb0/edit?usp=sharing		smolfeesh

8th

Name	Link	Notes	Credits
8th PC	https://docs.google.com/spreadsheets/d/1-jZkh7knSh4wQSkS2jbmhTLcHBLajlkNCNaXkP2hm_4/edit#gid=0	So far only setups for T replace	Marfung37
8th PC	https://docs.google.com/spreadsheets/d/1KJ45y38PEdEtxKfmerXKfnPMGGhxfOsMrTNPRpZ639l/edit?usp=sharing	Mainly 4p for all cases	Kvodeth

PC Solves

Name	Link	Notes	Credits
All PC's	http://gigapan.com/gigapans/201912	Literally all the PCs that are possible in a 4x10 with 7bag	Knewjade

PC Tools

Name	Link	Notes	Credits
Sfinder	https://github.com/knewjade/solution-finder/releases/latest	Tool to find PC rate, solves, saves, etc.	Knewjade
Sfinder Manual	https://knewjade.github.io/sfinder-docs/		Knewjade
PC Indicator	https://greasyfork.org/en/scripts/396076-pc-indicator	PC num indicator on jstris	Mepppydc

PC Practice

Name	Link	Notes	Credits
Jstris PC Mode	https://jstris.jezevec10.com/?play=8	Play to do as many b2b PC as you can	jezevec10
PC Quiz	PC Quiz	Quiz over 1st pc PCO, Grace	Nilgiri shiwehi
PC Check	http://www.shiwehi.com/tetris/game/pccheck.php	Practice 1st PCO, Grace with a specific queue	shiwehi
four-tris	https://discord.gg/XnrvdZj	Analysis and practice tool that lets you edit board & queue, redo/undo moves	Fio (and others?)

Other

Name	Link	Notes	Credits
Tetris knowledge	https://knewjade.github.io/tetris-knowledge/	A compilation of knewjade's stuff on PCs and t spins	Knewjade
Perfect Clear Info	https://sites.google.com/view/perfect-clear-info/home	Jimothy's website over PC	JimothyJimothy

	https://docs.google.com/document/d/1udtg235q2SdoFYwMZNu-GRYR-4dCYMkp0E8_Hw1XTyg/mobilebasic#heading=h.z6ne0og04bp5		
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