

Chinese Dark Chess

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Download Java

<https://dev.java/>



Download Chinese Dark Chess Platform

- Windows

- http://120.126.195.84/Data/CDC_windows10_20220103_5_4_3.zip

- Ubuntu

- http://120.126.195.84/Data/CDC_ubuntu1804_20220103_5_4_3.zip

How to open the game room

1. Unzip CDC_windows10_20220103_5_4_3.zip
2. Go to /windows/open
3. Open cmd and input **java -jar Launcher.jar -cli**

```
C:\Users\danie\Downloads\windows\open>java -jar Launcher.jar -cli
Loading Library --- OK
Loading GameType Setting File --- OK
Loading Game Setting File --- OK
Loading Room Setting File --- OK

*** Launcher V5.4.3 ***
1) Show Settings
2) Show Room Settings
3) Change Game Type
4) Change Game Setting
5) Change Room Setting
6) Start Game
7) Update Game Library
8) Quit
Please enter a number to continue: |
```

Play in General mode process (Open Room)

1. Input 4 Change Game Setting
2. Account : a0 ~ a20000
3. Password : 123
4. Setting your AI path
 1. Input 15 and enter your path
5. Back
6. Start Game

```
*** Launcher V5.4.3 ***
1) Show Settings
2) Show Room Settings
3) Change Game Type
4) Change Game Setting
5) Change Room Setting
6) Start Game
7) Update Game Library
8) Quit
Please enter a number to continue: 4

*** Game Setting ***
1) Account [a0]
2) Password [123]
3) Room Type [General]
4) Start Mode [Open]
5) LocalServer [No]
6) MidBoard [No]
7) Connect Mode [Mgtp]
8) Repeat Times [100]
9) Host First Move [Yes]
10) Change First Move [Yes]
11) Server IP [120.126.151.213]
12) Timer Mode [Absolute (900/0/0)]
13) Long Catch [3]
14) No Eat Flip [180]
15) Search Path [Search\DarkChess\windows\3_depth.exe]
16) Search Arg []
17) Win Score [1.000000]
18) Draw Score [0.500000]
19) Lose Score [0.000000]
20) Piece Score [0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0,0.0]
21) Bonus Score [0.000000]
22) Bonus Limit [0.000000]
23) Back
Please enter a number to continue: |
```

Play in General mode process (Open Room)

```
*** Launcher V5.4.3 ***
1) Show Settings
2) Show Room Settings
3) Change Game Type
4) Change Game Setting
5) Change Room Setting
6) Start Game
7) Update Game Library
8) Quit
Please enter a number to continue: 6

*** Start Game ***
Start Search...
Path: Search\DarkChess\windows\3_depth.exe
[Client Send: 1 name]
1 name
=1 MyAI
=1 MyAI
[Client Recv: 1 MyAI]
[Client Send: 2 version]
2 version
=2 1.0.0
=2 1.0.0
[Client Recv: 2 1.0.0]
Login...
Create Room...
Waiting for another player...
|
```

Play in General mode process (Enter Room)

1. Go to /windows/enter and run `java -jar Launcher.jar -cli`
2. Input 4 Change Game Setting
3. Account : a0 ~ a20000
4. Password : 123
5. Setting your AI path
 - Input 15 and enter your path
6. Back
6. Start Game

```
C:\Users\danie\Downloads\windows\enter>java -jar Launcher.jar -cli
Loading Library --- OK
Loading GameType Setting File --- OK
Loading Game Setting File --- OK
Loading Room Setting File --- OK

*** Launcher V5.4.3 ***
1) Show Settings
2) Show Room Settings
3) Change Game Type
4) Change Game Setting
5) Change Room Setting
6) Start Game
7) Update Game Library
8) Quit
Please enter a number to continue: 4

*** Game Setting ***
1) Account [a1]
2) Password [123]
3) Room Type [General]
4) Start Mode [Enter]
5) LocalServer [No]
6) Connect Mode [Mgtp]
7) Server IP [120.126.151.213]
8) Search Path [Search\DarkChess\windows\3_depth.exe]
9) Search Arg []
10) Back
Please enter a number to continue: |
```


Play in General mode process (Enter Room)

- Enter Index to enter the game

```
*** Start Game ***
Start Search...
Path: Search\DarkChess\windows\3_depth.exe
[Client Send: 1 name]
1 name
=1 MyAI
=1 MyAI
[Client Recv: 1 MyAI]
[Client Send: 2 version]
2 version
=2 1.0.0
=2 1.0.0
[Client Recv: 2 1.0.0]
Login...
Enter Room...

| Index | Room ID | Room State | Host | isHuman | MidBoard | Round | FirstMove | ChangeFirst | Time | PlyTimeLimit | GroupPly | Num of Repetition | NoEatFlip |
| 1 | 23489554 | Waiting | a0 | NO | NO | 100 | YES | YES | 900 | 0 | 0 | 3 | 180 |

Room Index (1 ~ 1) [-1: reload]: |
```

Play in Contest mode process

1. Go to /windows/open or /windows/enter and run `java -jar Launcher.jar -cli`
2. Enter Change Game Setting
3. Setting Account, Password, Room Type and Search Path
 - Account and Password is your Program Name
 - Room Type is Contest
 - Search Path is your AI path

Play in Contest mode process

- Start Game and waiting Contest room Create

```
*** Launcher V5.4.3 ***
```

- 1) Show Settings
- 2) Show Room Settings
- 3) Change Game Type
- 4) Change Game Setting
- 5) Change Room Setting
- 6) Start Game
- 7) Update Game Library
- 8) Quit

```
Please enter a number to continue: 4
```

```
*** Game Setting ***
```

- 1) Account [Yahari]
- 2) Password [Yahari]
- 3) Room Type [Contest]
- 4) Connect Mode [Mgtp]
- 5) Server IP [120.126.151.213]
- 6) Search Path [Search\DarkChess\windows\3_depth.exe]
- 7) Search Arg []
- 8) Back

```
Please enter a number to continue: |
```

Add Multiple Games Text Protocol (MGTP) to your program to connect to the game platform

- http://120.126.195.84/Data/Other/DarkChess/sample_code.zip
- You can refer to MGTP sample code

Add Multiple Games Text Protocol (MGTP) to your program to connect to the game platform

Id	Command Name	Command Explain	Input Parameter	Sample Platform Input [Id Command Name Parameter]	Output Parameter	Sample Your Program Output [=Id Return]
0	protocol_version	Return MGTP Version	NULL	0 protocol_version\n	MGTP Version	=0 1.0.0\n
1	name	Return AI Name	NULL	1 name\n	Return AI Name	=1 Yahari\n
2	version	Return AI Version	NULL	2 version\n	Return AI Version	=2 5.13.2\n
3	known_command	Whether to support this command	<command>	3 known_command name\n	true or false	=3 true\n
4	list_commands	list supported commands	NULL	4 list_commands\n	<command> <command> ...	=4 protocol_version\nName\n...

Add Multiple Games Text Protocol (MGTP) to your program to connect to the game platform

Id	Command Name	Command Explain	Input Parameter	Sample Platform Input [Id Command Name Parameter]	Output Parameter	Sample Your Program Output [=Id Return]
5	quit	request program termination	NULL	5 quit\n	NULL	=5\n
6	boardsize	set board size	<row> <column>	6 boardsize 8 4\n	NULL	=6\n
7	reset_board	reset board	NULL	7 reset_board\n	NULL	=7\n
8	num_repetition	Set the maximum number of board repeats	<number>	8 num_repetition 3\n	NULL	=8\n
9	num_moves_to_draw	Set the maximum number of no-eating flips	<number>	9 num_moves_to_draw 180\n	NULL	=9\n

Add Multiple Games Text Protocol (MGTP) to your program to connect to the game platform

Id	Command Name	Command Explain	Input Parameter	Sample Platform Input [Id Command Name Parameter]	Output Parameter	Sample Your Program Output [=Id Return]
10	move	Return move	<from> <dst>	10 move a1 a2\n	NULL	=10\n

8	a8	b8	c8	d8
7	a7	b7	c7	d7
6	a6	b6	c6	d6
5	a5	b5	c5	d5
4	a4	b4	c4	d4
3	a3	b3	c3	d3
2	a2	b2	c2	d2
1	a1	b1	c1	d1

a b c d
board position code

Add Multiple Games Text Protocol(MGTP) to your program to connect to the game platform

Id	Command Name	Command Explain	Input Parameter	Sample Platform Input [Id Command Name Parameter]	Output Parameter	Sample Your Program Output [=Id Return]
11	flip	Return Flip	<location> <piece>	11 flip a3 G\n	NULL	=11\n

8	a8	b8	c8	d8
7	a7	b7	c7	d7
6	a6	b6	c6	d6
5	a5	b5	c5	d5
4	a4	b4	c4	d4
3	a3	b3	c3	d3
2	a2	b2	c2	d2
1	a1	b1	c1	d1

a b c d
board location code

color	King	Guard	Minister	Rook	Knight	Canon	Pawn
Red	K	G	M	R	N	C	P
Black	k	g	m	r	n	c	p
Dark chess				Empty chess			
X				-			

Piece code

Add Multiple Games Text Protocol (MGTP) to your program to connect to the game platform

Id	Command Name	Command Explain	Input Parameter	Sample Platform Input [Id Command Name Parameter]	Output Parameter	Sample Your Program Output [=Id Return]
12	genmove	AI generate move	<color>	12 genmove black\n	<from> <dst>	=12 c5 c6\n

8	a8	b8	c8	d8
7	a7	b7	c7	d7
6	a6	b6	c6	d6
5	a5	b5	c5	d5
4	a4	b4	c4	d4
3	a3	b3	c3	d3
2	a2	b2	c2	d2
1	a1	b1	c1	d1
	a	b	c	d

board location code

- Color : red, black or unknown.(unknown color is first ply)
- Give up : =12 a0 a0
- Flip : =12 a1 a1
- Move : =12 c5 c6

color	King	Guard	Minister	Rook	Knight	Canon	Pawn
Red	K	G	M	R	N	C	P
Black	k	g	m	r	n	c	p
Dark chess				Empty chess			
X				-			

Piece code

Add Multiple Games Text Protocol (MGTP) to your program to connect to the game platform

Id	Command Name	Command Explain	Input Parameter	Sample Platform Input [Id Command Name Parameter]	Output Parameter	Sample Your Program Output [=Id Return]
13	game_over	Return game result	<result> Result express winner. red, black or draw.	13 game_over red\n	NULL	=13\n
14	ready	Ask if ready	NULL	14 ready\n	NULL	=14\n
15	time_settings	Set time	<time> (ms)	15 time_settings 900000\n	NULL	=15\n
16	time_left	Return remaining time	<color> <time> color is red or black	16 time_left black 899999\n	NULL	=16\n
17	showboard	Print Board	NULL	17 showboard\n	<board>	=17 XXXX\nXXXX...

Add Multiple Games Text Protocol (MGTP) to your program to connect to the game platform



Id	Command Name	Command Explain	Input Parameter	Sample Platform Input [Id Command Name Parameter]	Output Parameter	Sample Your Program Output [=Id Return]
18	init_board	The initial is the designated board	<board> <remain_pieces> <first_color>	18 init_board ...\n	NULL	=18\n

- <board> : It is the codes of 32 chess pieces on the board, all separated by spaces, from top left to bottom right, first to right and then to bottom, for example: X P X K k p g X
- <remain_pieces> : It is the number of each type of chess that is alive (including unflip) on the chessboard, the order is KGMRNCPkgmrncp, all separated by spaces, for example: 1 1 2 2 2 1 4 1 1 2 2 2 1 4.
- <first_color> : It is the color of the first player, one of red, black and unknown, for example: red.
- The above parameter <board>, parameter <remain_pieces> and parameter <first_color> are also separated by spaces.

Observation and Game Record

- Observation : <http://120.126.195.84/observation.html#>
- Game Record : http://120.126.195.84/game_record.php

Contest Results Website

Connect State	Index 	Name	Rank 	Big	Small
Connected	1	711083120	1	1.5	0.5
Disconnected	2	baseline	2	0.5	1.5

- "Big" column represents score, win point +1, draw point +0.5, loss point +0
- "Small" column represents the sum of the opponent's points
- If the big column is the same, the higher the Small column, the higher the rank