

Hnefatafl is a family of 2-player Viking board games, where one player tries to guide a King to a refugee square, while attackers try to prevent this. Right now, we're implementing the popular 11x11 variant.

To develop and test this game, please follow the steps below:

I. Configure Development Environment

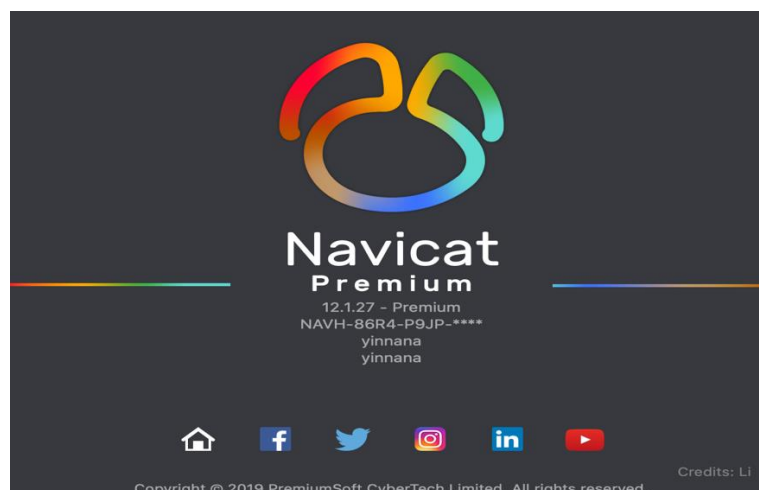
- 1) Download and install the **JDK 1.8.0_221**

```
[Nanas-MacBook-Pro:cs414-fa19-001-Party-A nanayin$ java -version
java version "1.8.0_221"
Java(TM) SE Runtime Environment (build 1.8.0_221-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.221-b11, mixed mode)
Nanas-MacBook-Pro:cs414-fa19-001-Party-A nanayin$
```

- 2) Download and install the database **MYSQL 8.0.18**

```
[mysql> select version();
+-----+
| version() |
+-----+
| 8.0.18    |
+-----+
1 row in set (0.00 sec)
```

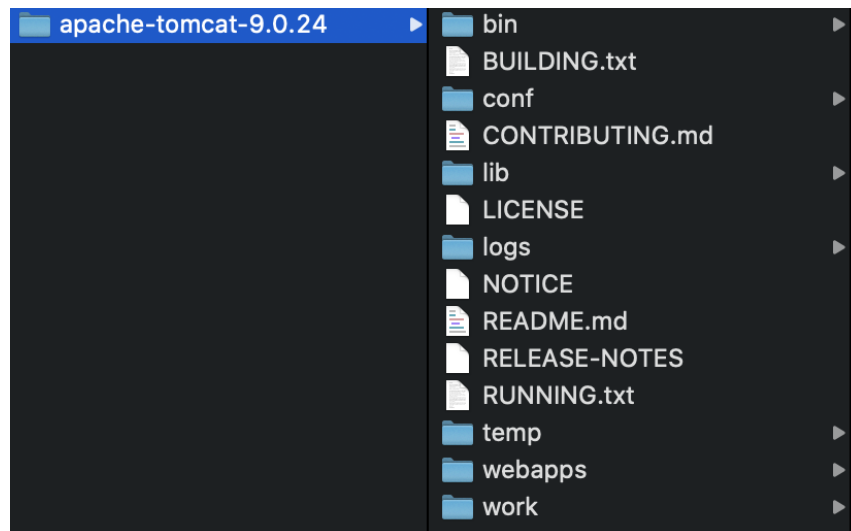
- 3) Download and install the **Navicat Premium 12.1.27**



4) Download and install the **IntelliJ IDE 2019.2.1**



5) Download the apache-tomcat-9.0.24 package



II. Download the source code from Github

<https://github.com/JacindaQiong/cs414-fa19-001-Party-A/tree/master/PartyA>

Clone our project from Github:

```
$ git init
```

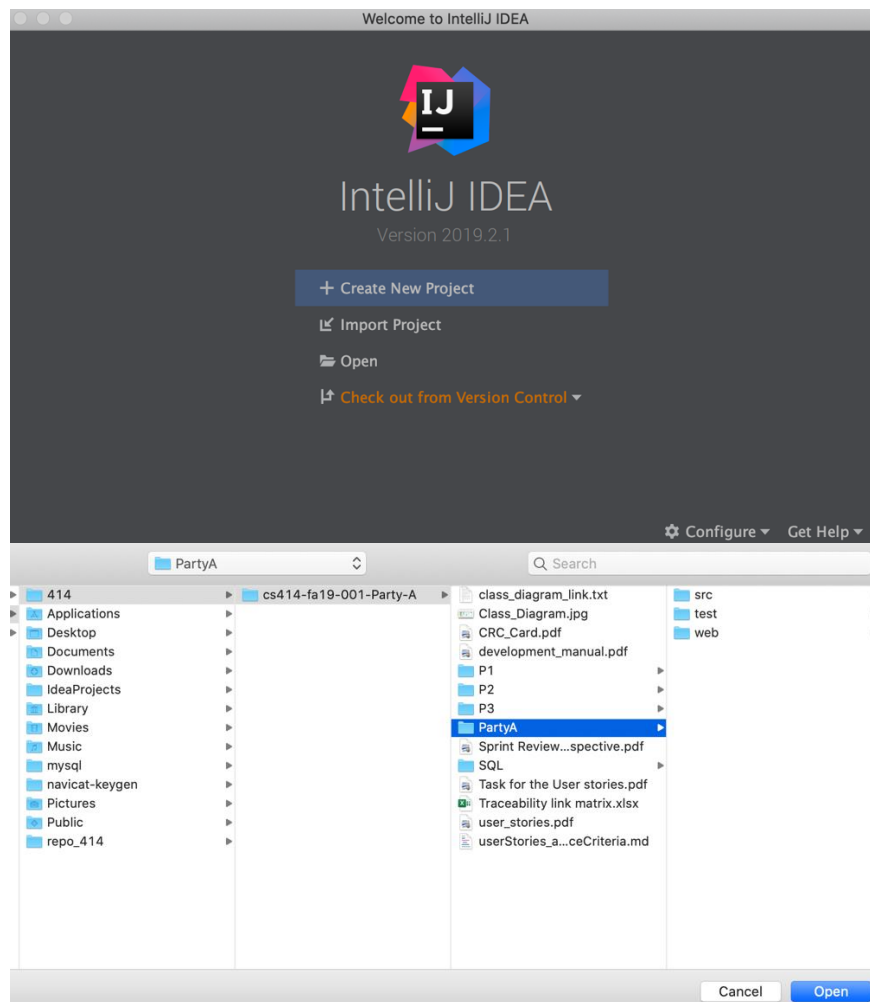
```
$ git remote add origin https://github.com/JacindaQiong/cs414-fa19-001-Party-A
```

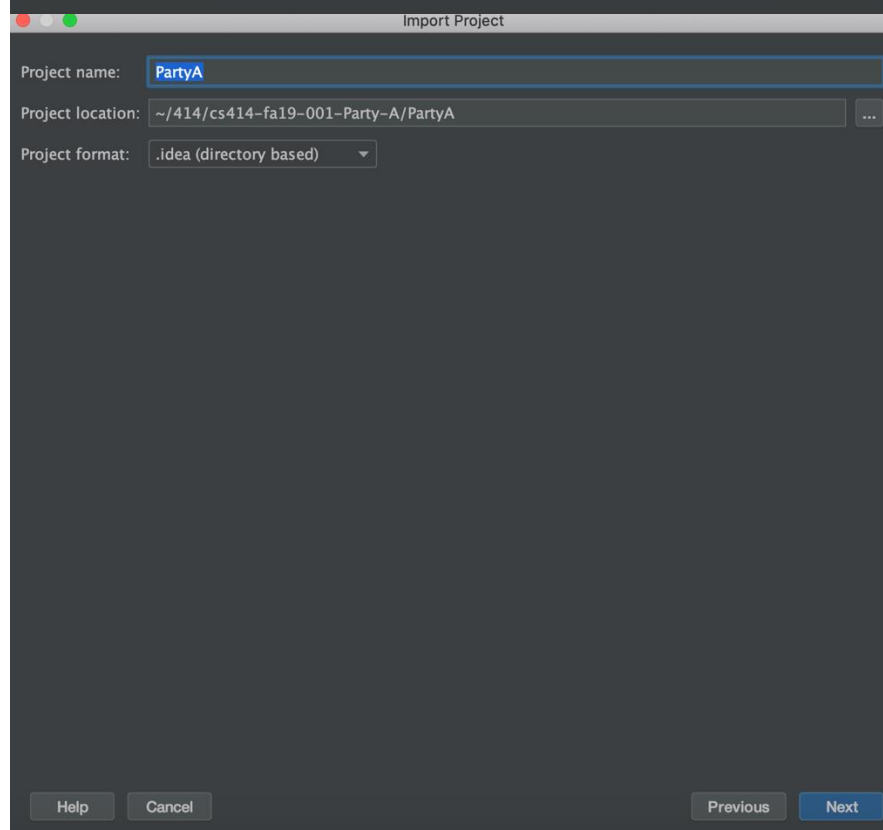
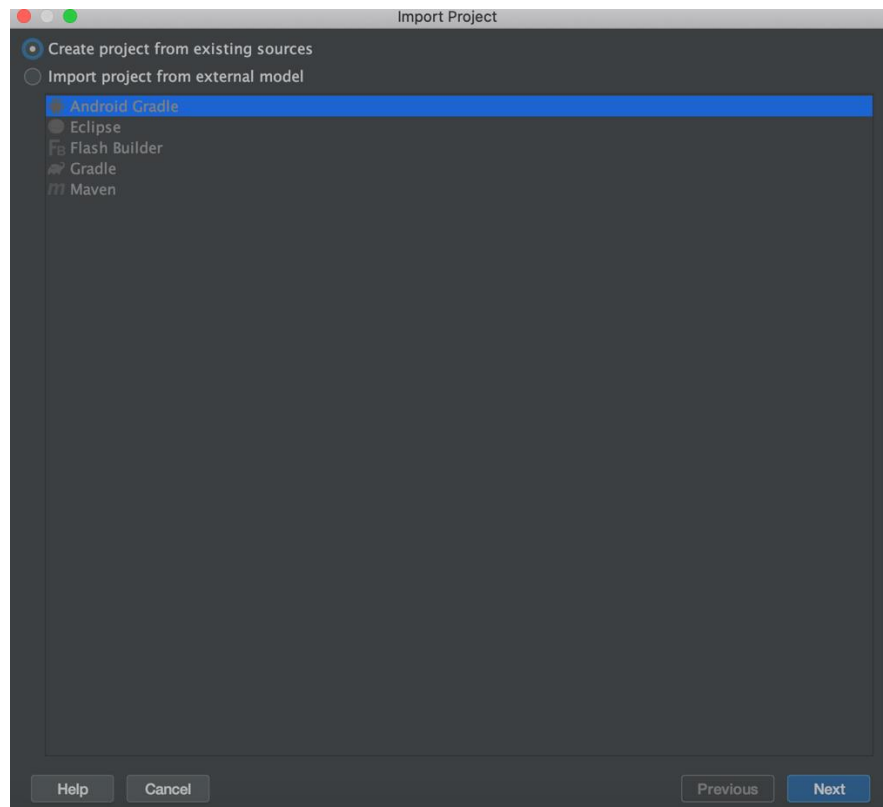
```
$ git clone https://github.com/JacindaQiong/cs414-fa19-001-Party-A
```

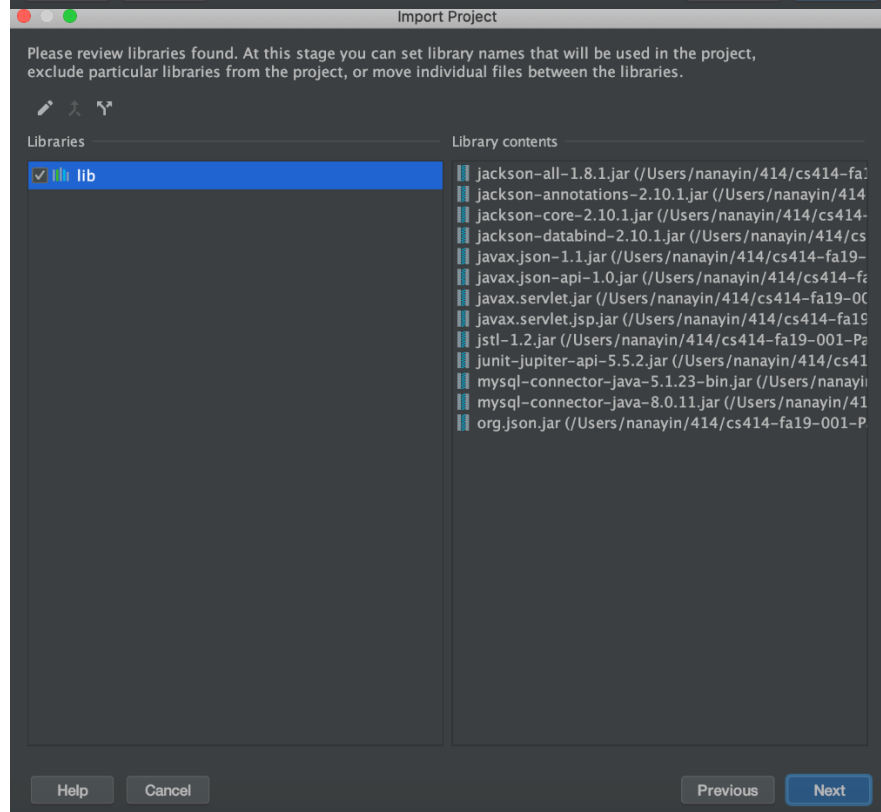
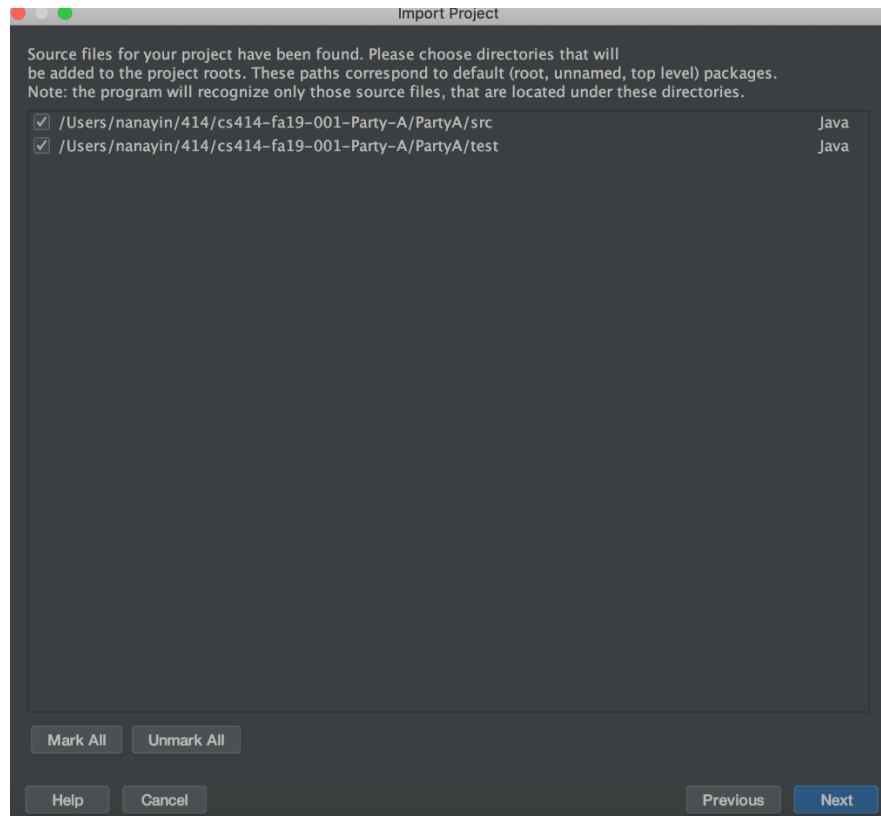
```
Nanas-MacBook-Pro:414 nanayin$ git init
Initialized empty Git repository in /Users/nanayin/414/.git/
Nanas-MacBook-Pro:414 nanayin$ git remote add origin https://github.com/JacindaQiong/cs414-fa19-001-Party-A
Nanas-MacBook-Pro:414 nanayin$ git clone https://github.com/JacindaQiong/cs414-fa19-001-Party-A
Cloning into 'cs414-fa19-001-Party-A'...
remote: Enumerating objects: 66, done.
remote: Counting objects: 100% (66/66), done.
remote: Compressing objects: 100% (49/49), done.
remote: Total 1340 (delta 18), reused 41 (delta 7), pack-reused 1274
Receiving objects: 100% (1340/1340), 39.90 MiB | 4.93 MiB/s, done.
Resolving deltas: 100% (583/583), done.
Nanas-MacBook-Pro:414 nanayin$
```

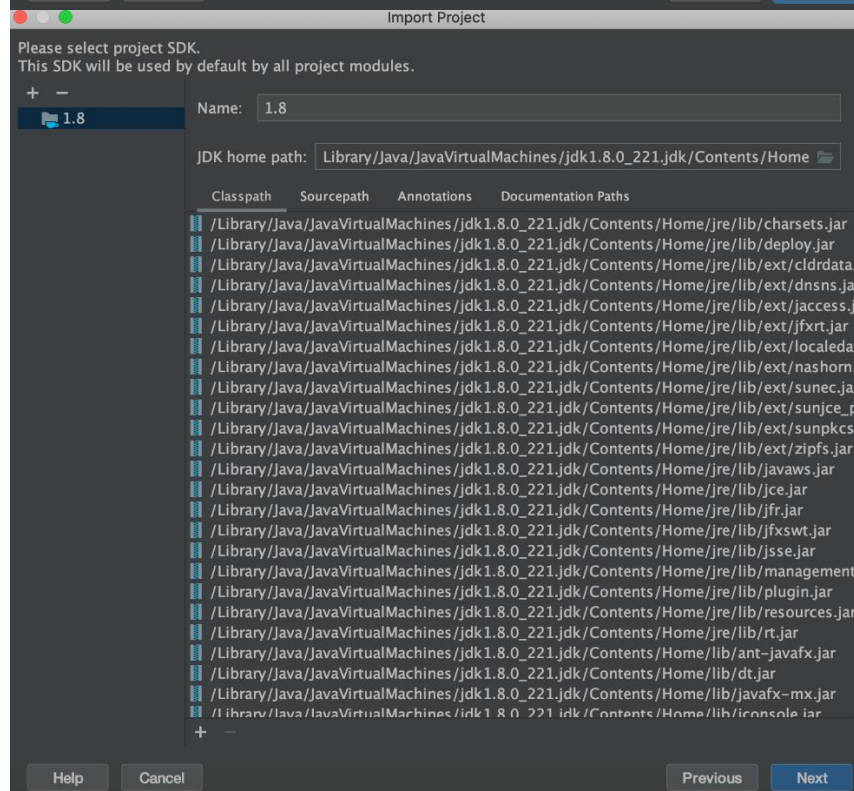
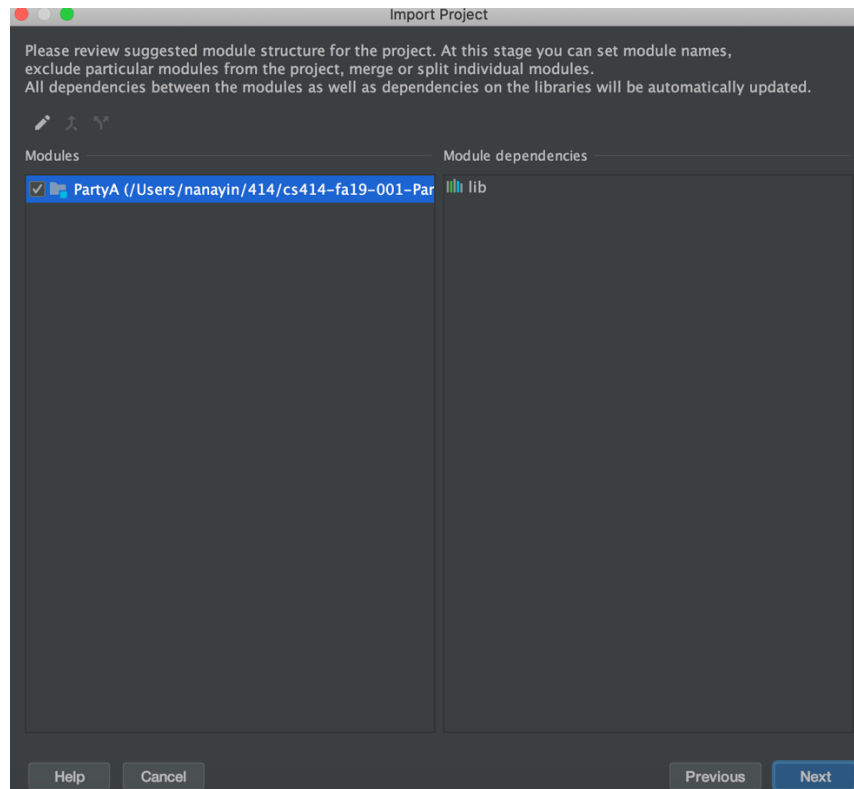
III. Configure and Deploy the project

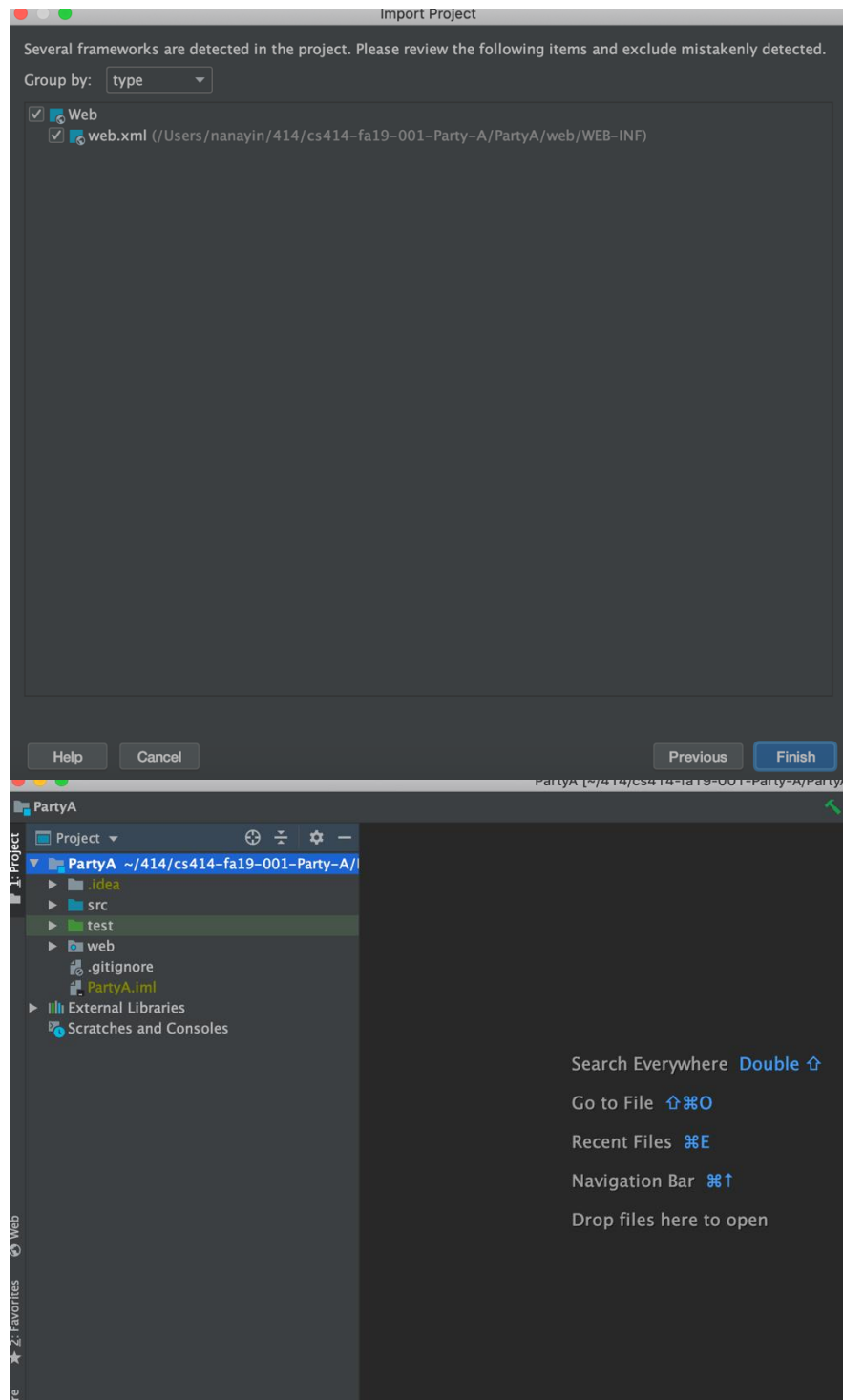
1) **Import the project** that we just cloned from gitHub into IDEA:





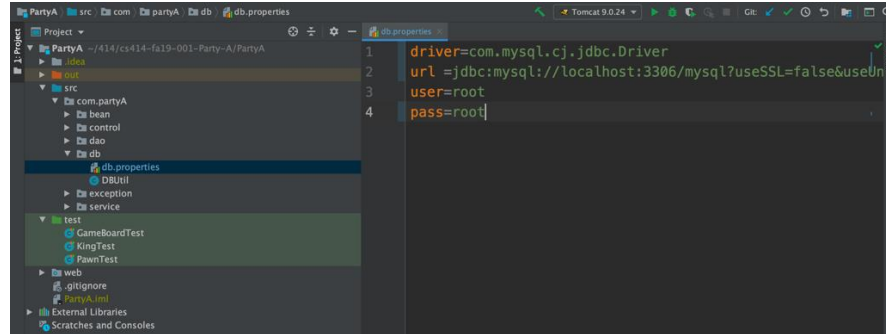






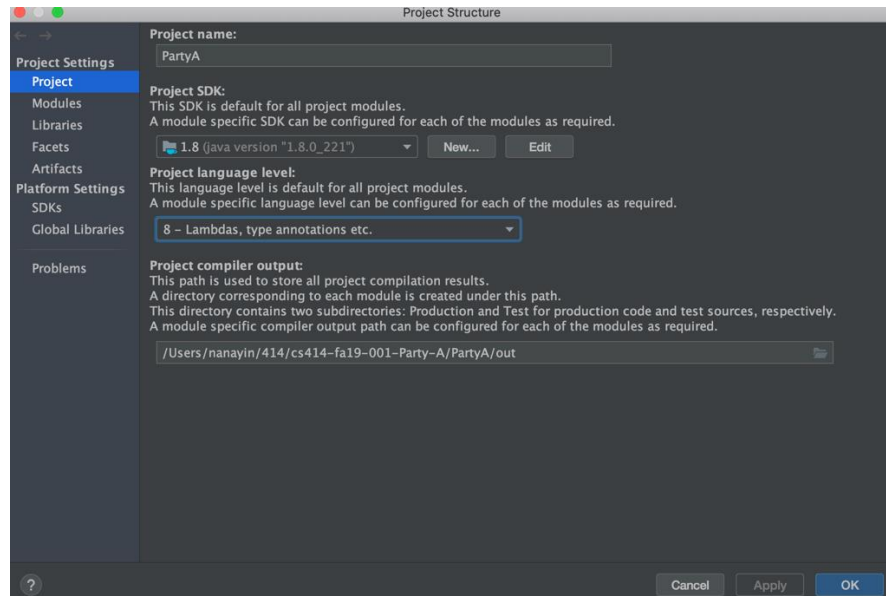
2) Change database connection information(db.properties)

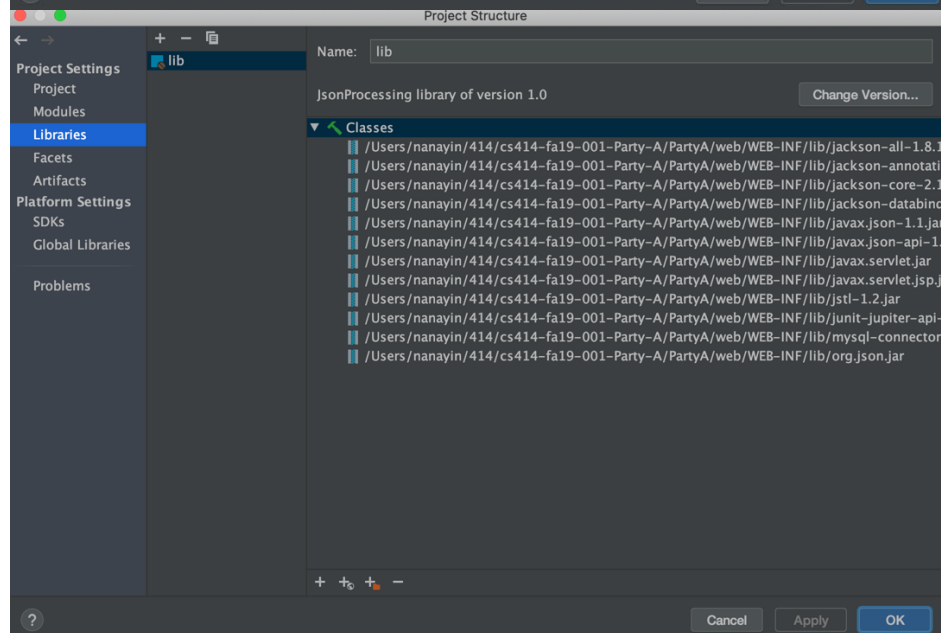
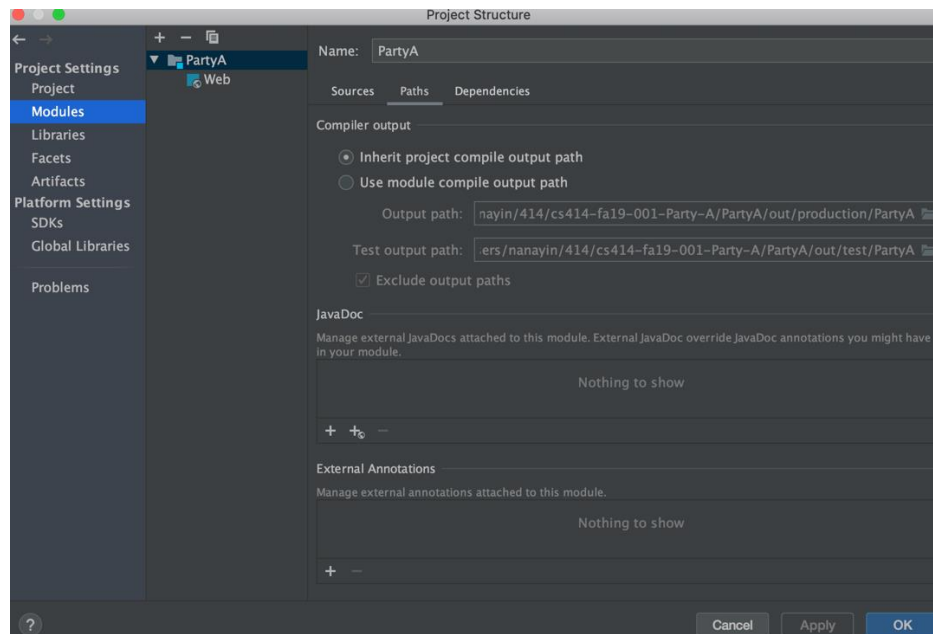
- 3) Download and load into Navicat the following tables: `game_invitation.sql`, `game_match.sql`, and `game_user.sql`.

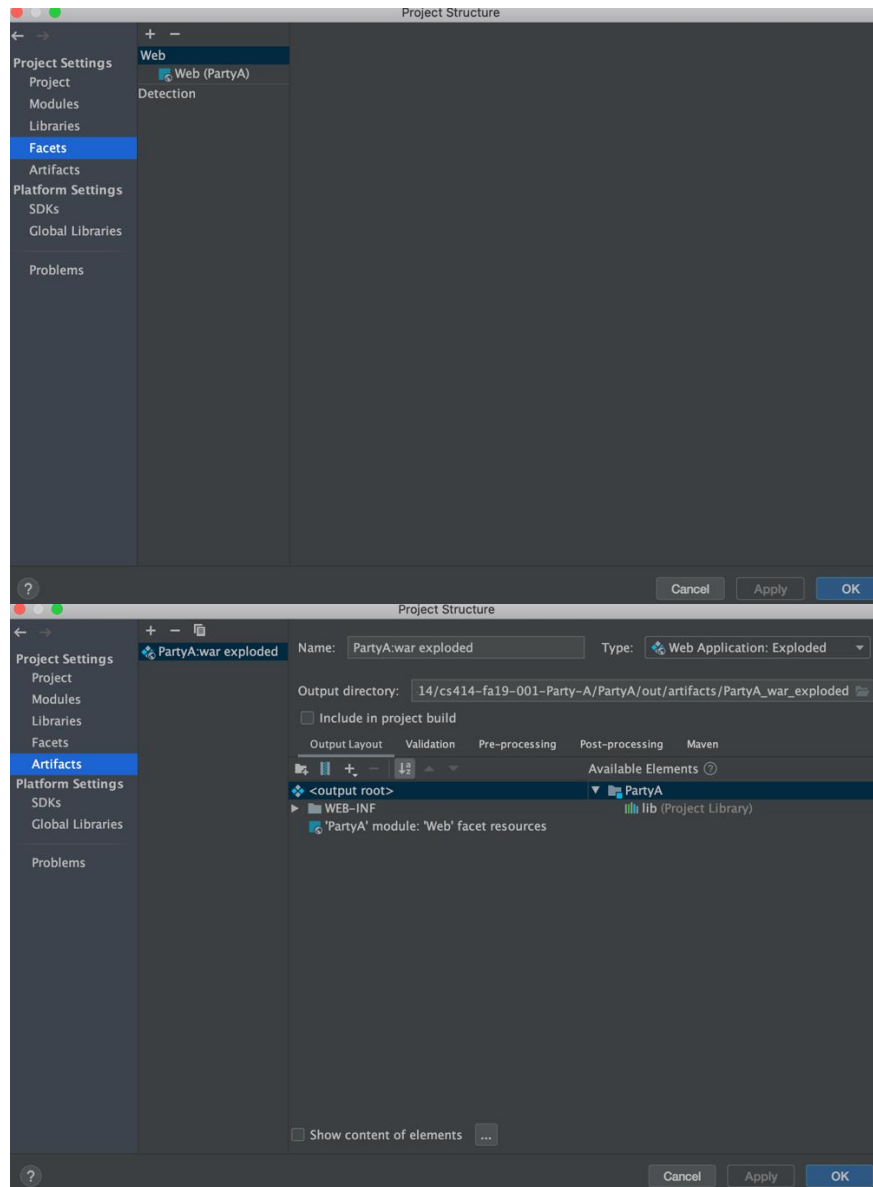


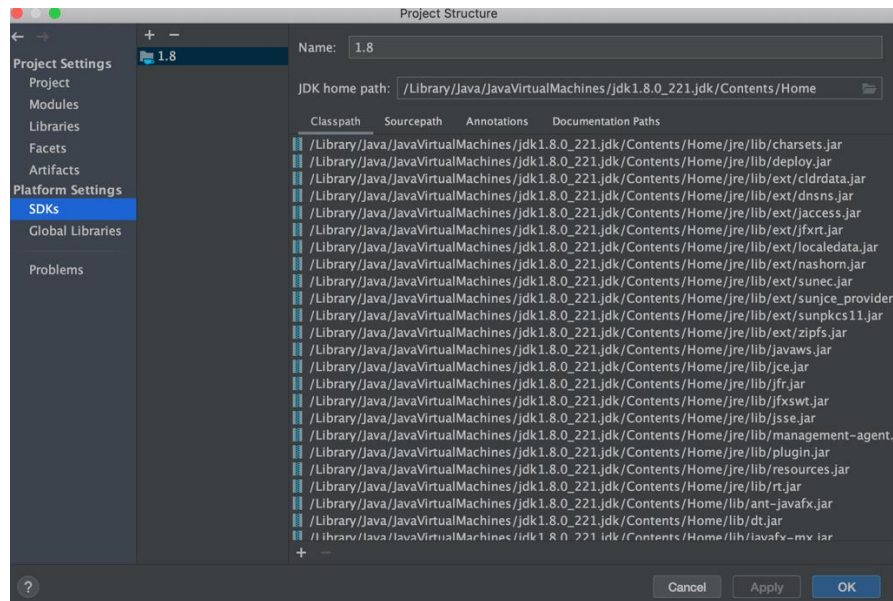
- 4) Configure the project:

Select the JDK we just installed:



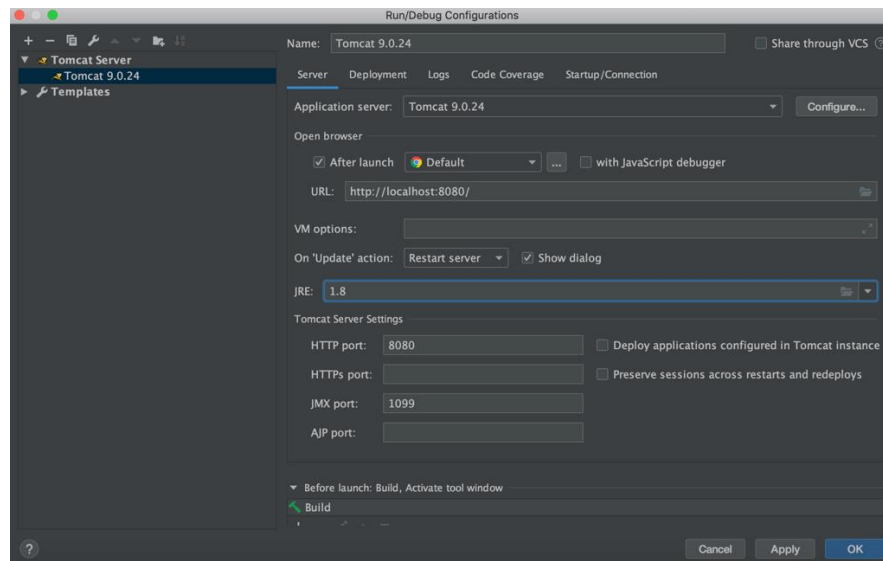


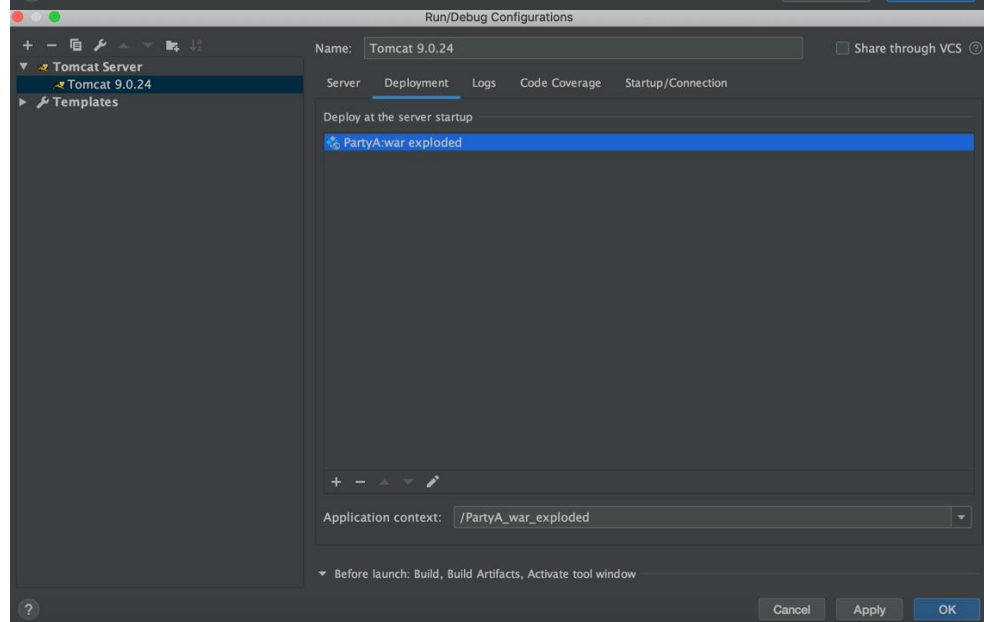
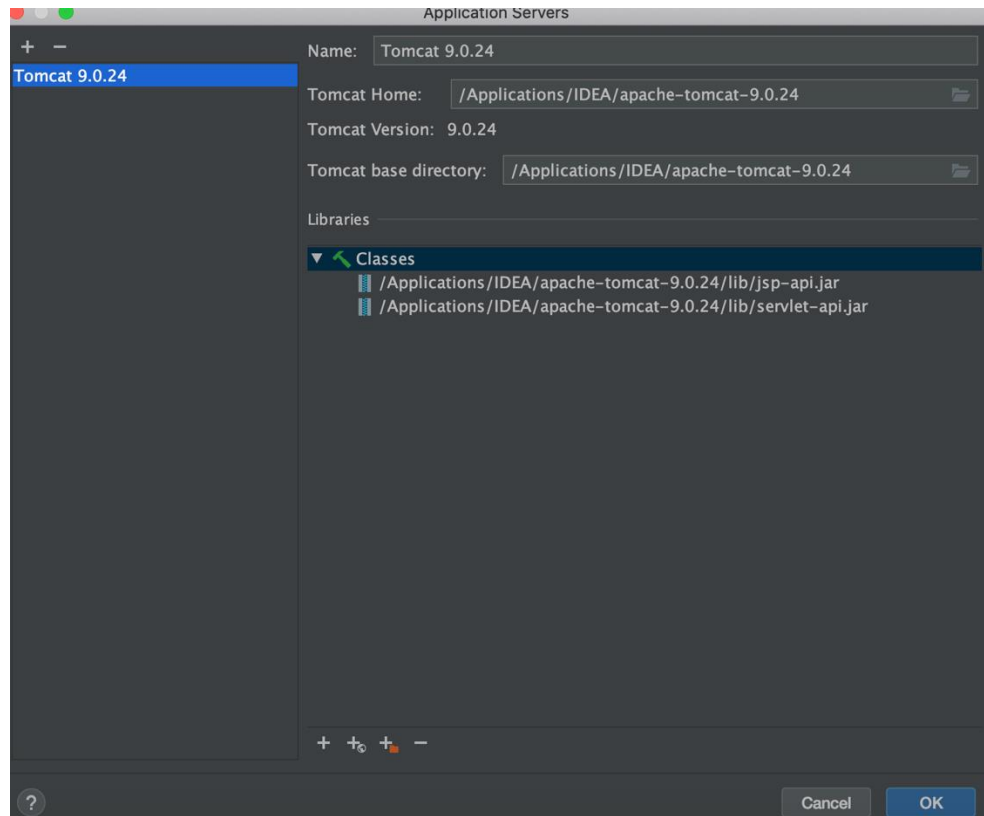




5) Configure the tomcat server:

Choose the tomcat we just downloaded:



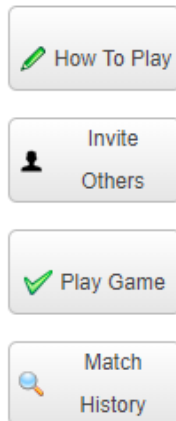


IV. Test the whole process

Begin by registering an account, or logging into one already in the user database. Once logged in, you can select “How to play!” to understand the rules of Hnefatafl.

Press “Home” to return to the homepage.

Welcome to Play Hnefatafl



You can then begin an invitation by selecting “Invite others”. From there, simply select a user and click their name, followed by pressing “Send invite”. The game begins when the invited user selects “accept” in their invites menu below.

Invite Users to Play With

Home Account:123 [Logout](#)

ID	Name
1	123
2	234
3	987

3 Page 1 of 3

Displaying 1 to 3 of 7 items

View My Invitations

Send Invite		exit		
Inviter	Invitee	Time	InviterID	InviteeID

5 Page 1 of 1

Accept Ignore

Displaying 1 to 1 of 1 items

Once the game ends, the match information will be stored in the database. To view this return to the homepage, and select “Match History”.

Home

whiteID	blackID	whiteName	blackName	result	startTime	endTime	
3	1	987	123	white won	2019-12-08 18:28:4	2019-12-08 18:29:2	