

# CasCastle: Mathematical game

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## Abstract

### *CasCastle*

It's a program that gives you a series of 'castles' made of several rows, each one representing additions, so the first row of the castle represent : “ $8+4+9=21$ ”. You have to check if all the additions are right. Sometimes there're bugs. Example:

```
8 4 9 | 21
10 9 10 | 29
1 1 10 | 12
```

Press **R** if you think the castle is right,  
anything else if is wrong, then press enter

At the end the series you got a brief statistics lines:  
Number of questions: 10 Number of Hits: 6

The purpose of the game is to instruct the people to do fast additions. The range, number of cols, number of rows and probability of buggy rows are all of them configurable.

## 1 Invoking it

I've made a shell script: `cascastle`

This is just an call to a Java programm:

```
java -classpath $CLASSPATH:CasSetGames.jar CasSetGames game
```

Where `game` is a file stored usually in `/usr/lib/vsep.../`, but it can be a local file too. If you invoke `cascastle` without args, then it loads that default file, if you put a name of file, then the game loads the data from that file.

## 2 Configuring new games

The format of the date file is sequences of strings (with no separation (no new-lines nor anything at all) with this look: 0300100306

This represents a castle of '03' cols, where the range of the numbers involved is up to '0010', there're '03' rows and the probability to have a 'buggy' row is '03/06'.

For generating such format , I've hacked a tcl script called `castlegen.tcl` which can be found in `/usr/lib/vsep.../` at the last lines of this script you have:

```
    setfile my_tests
setRange 10
setRows 3
setCols 3
setFault 6
severalCurrentParams 10
finish
```

You only have to change the values you want to. And then do: `tcl castlegen.tcl`, from the dir where `castlegen.tcl` is.

Of course, you can write that file by yourself, exercise by exercise or hack a Perl script...

### 3 Wishlist

Well, comments, money, ... Well, I suppose a great set of exercises, more complex behaviour. Statistics, login of users...

### 4 Author

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