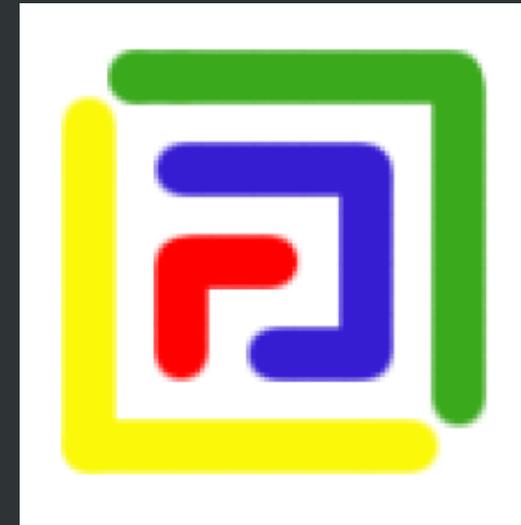


Mathex

Augustin Žídek



Select type of exercises

Which operations would you like to have?

Addition (+)

Subtraction (-)

Multiplication (*)

Division (/)

What difficulty should the exercises have?

1 2 3 4 5 6 7 8 9 10

How many excersises would you like to have?

10

OK

$$23 + 17 =$$

1

Check & generate

INCORRECT. Correct answer is: $252 / 14 = 18$

Completed: 5 of 10

Motto

Já jsem se naučil Javu,
vy se naučíte matematiku.

Cíle

- Freeware (opensource) vzdělávací program
- Program, který motivuje k učení
- Multiplatformní

Vývoj

- Původně školní projekt
- Původně to měl být program na řešení Sudoku
- Vydané verze: 0.0, 0.1, 0.2, 0.21, 0.22
- Plánovaná verze: 1.0

Verze 0.0

```
z@zidek:~/workspace/MyJavaLearning01$ java mathex00/Mathex
Program is distributed WITHOUT ANY WARRANTY.
You can exit program by pressing Q.
Set difficulty number (10, 100 or 1000): 10
Difficulty set to: 10

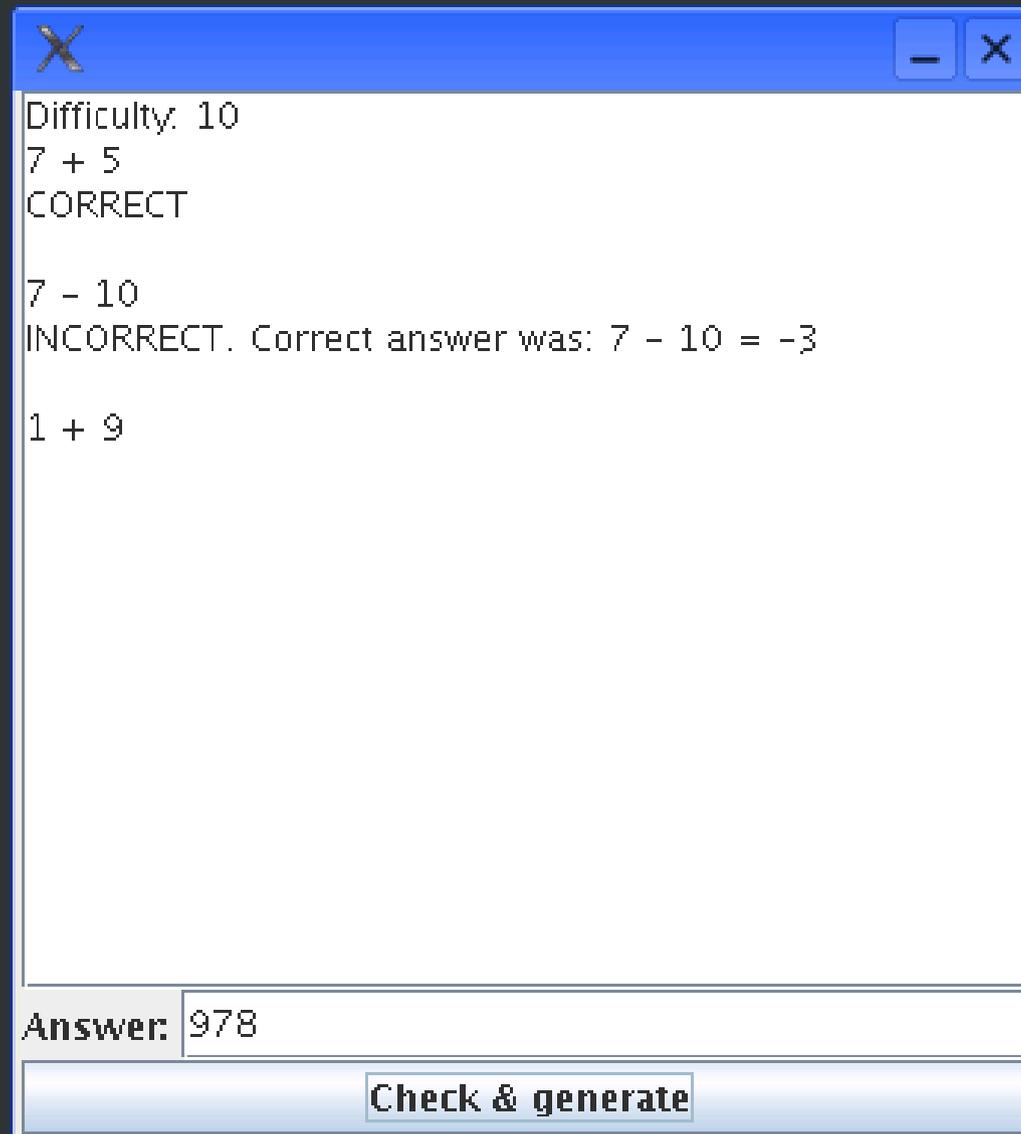
3 * 4
Answer is: 12
Your answer is correct.

5 * 6
Answer is: 32
Your answer is incorrect. Correct answer was: 5 * 6 = 30

1 * 8
Answer is: About
Mathex 0.0
Made by Augustin Zidek
Made in 2007
Only numbers, please.
Your answer is incorrect. Correct answer was: 1 * 8 = 8

10 + 5
Answer is: q
Program will exit now. Thanks for using it.
z@zidek:~/workspace/MyJavaLearning01$ █
```

Verze 0.1



A screenshot of a software window with a blue title bar. The window contains a list of arithmetic problems and their solutions. The problems are: $7 + 5$ (CORRECT), $7 - 10$ (INCORRECT. Correct answer was: $7 - 10 = -3$), and $1 + 9$. At the bottom, there is an input field labeled "Answer:" with the value "978" and a button labeled "Check & generate".

Difficulty: 10

$7 + 5$
CORRECT

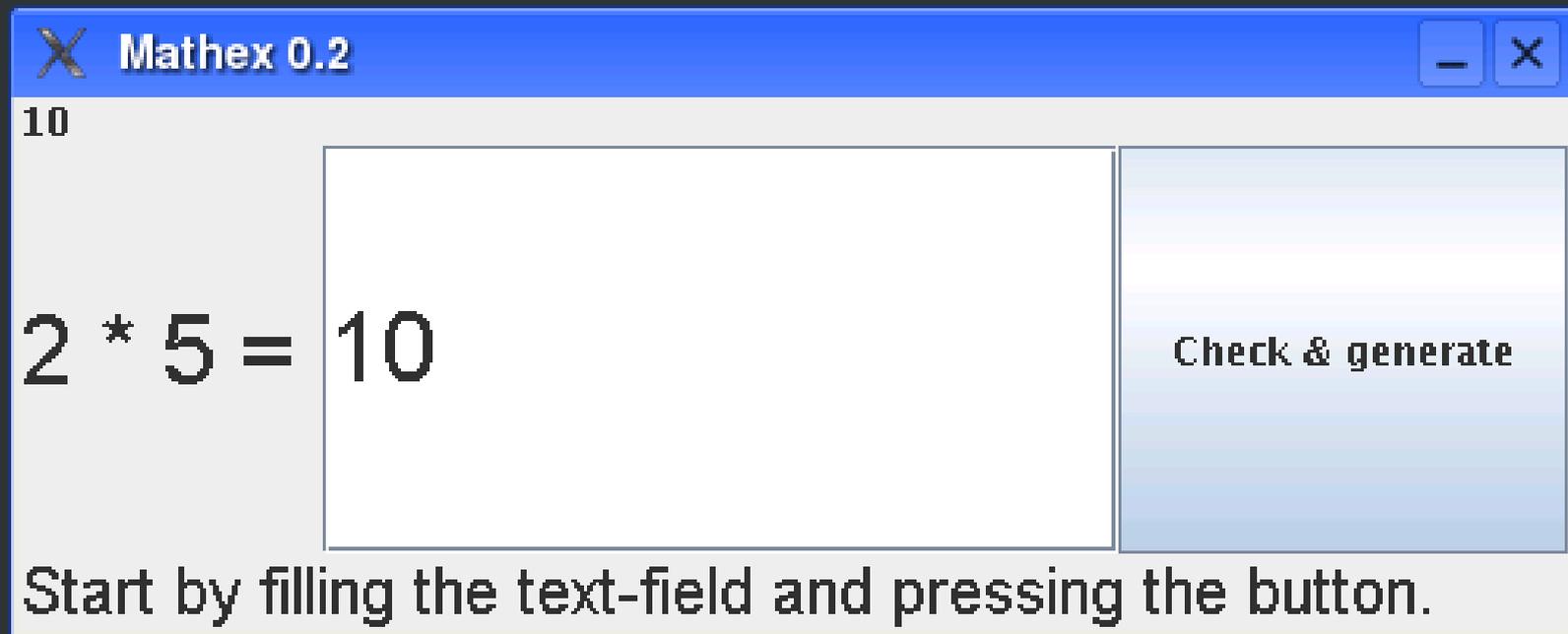
$7 - 10$
INCORRECT. Correct answer was: $7 - 10 = -3$

$1 + 9$

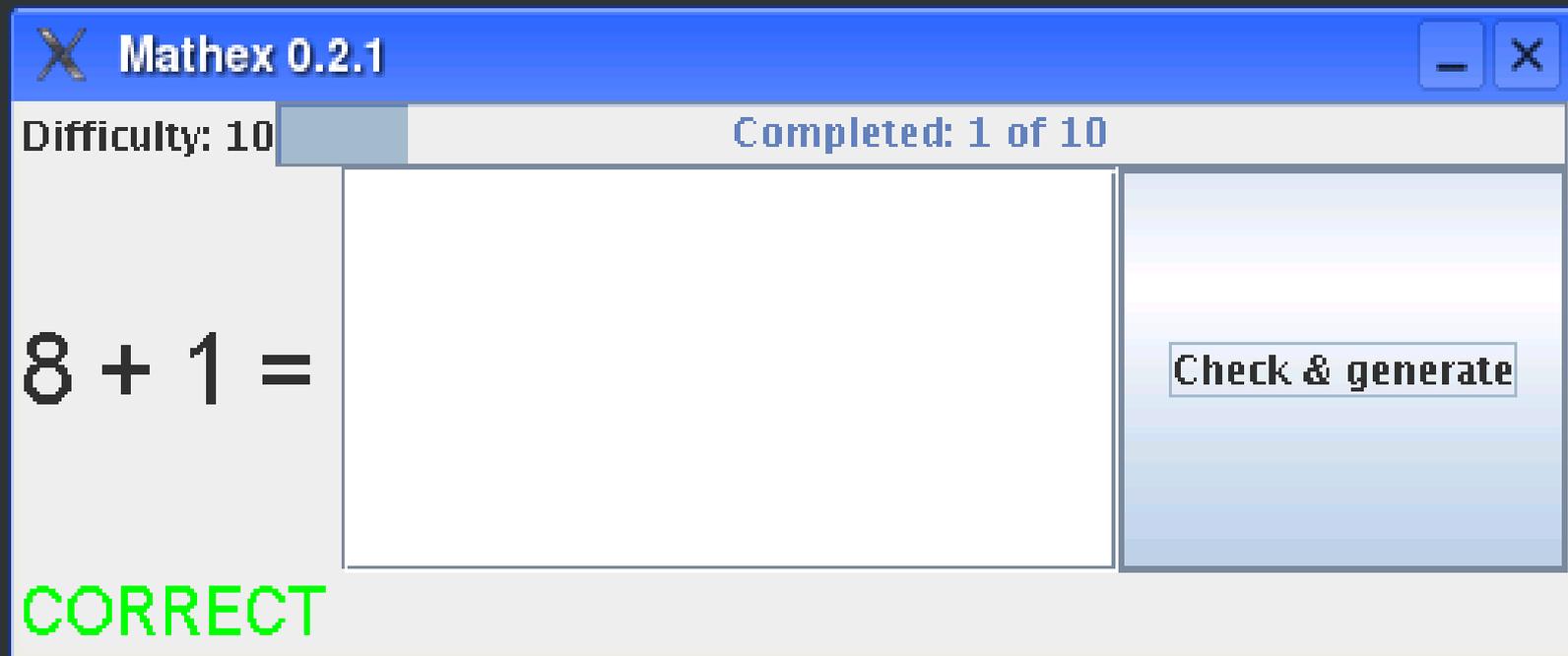
Answer: 978

Check & generate

Verze 0.2



Verze 0.21



Verze 0.22

Select type of exercises

Which operations would you like to have?

Addition (+)

Subtraction (-)

Multiplication (•)

Division (/)

What difficulty should the exercises have?

1 2 3 4 5 6 7 8 9 10

How many excersises would you like to have?

10

OK

Mathex 0.2.2

Difficulty: 25 Completed: 5 of 10

23 + 17 =

Check & generate

INCORRECT. Correct answer is: 252 / 14 = 18

Ukázka verze 0.22

- Ukázka programu
- Ukázka zdrojáků

Zajímavosti

- Kolem 2000 řádků :-) zdrojáků – stále roste
- Napsán v Eclipse, Vim a Kate
- Multiplatformní – Linux, Windows, *BSD, Apple MAC, openSolaris, ...
- Verze 1.0 – podpora více jazyků, současně pouze angličtina

Zdroje

- Florian Hawlitzek: Java 2, programmer's manual
Grada Publishing (2002), ISBN 80-247-9060-2
- Cay Horstmann: Object Oriented Design and Patterns
Wiley; Rev Ed edition (April 3, 2003), ISBN 978-0471319665
- Yakov Fain: Java™ Programming for Kids, Parents and Grandparents
Smart Data Processing, Inc. (2004), ISBN 0-9718439-5-3
- <http://java.sun.com>
- <http://java.sun.com/docs/books/tutorial>
- <http://forum.java.sun.com>
- <http://www.java2s.com>

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