

# TESTIVAL #55

## SELF VERIFYING DATA

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## Basara: Puška i testera



Vladimir Putin poklonio Aleksandru Vučiću pušku, neku staru kraljevsku srpsku, Basara iščitao poruku iz geste: “Da je počem živ – a prava je šteta što nije – Anton Pavlovič bi zacelo revidirao jedan od najpoznatijih postulata svoje dramaturgije, tako da glasi: Puška okačena u prvom činu na naslovnici NIN-a, u drugom činu, u Sočiju, glumcu kaže sledeće: ne budeš li u trećem činu igrao kako reditelj kaže, Uprava pozorišta će nekom od zainteresovanih u Srbiji – a ima ih iha ha – pokloniti čučavac i testeru”.

kolumne

Srbija

Svetislav Basara

# STEPS OF KNOWLEDGE

- THE ORACLE
- SELF VERIFYING DATA
- EXAMPLE
- WRONG EXAMPLE
- ADVANTAGES
- DISADVANTAGES
- BBST FOUNDATIONS

# THE ORACLE

- An oracle is a mechanism for determining whether a program passed or failed a test.[BBST]
- Mechanism [noun] – a natural or established process by which something takes place or is brought about

# SELF VERIFYING DATA

- An Oracle!
- Self-verifying test data is any data that **contains** the correct answer of function or feature that we test

# EXAMPLE - CALCULATION

- IBAN

Country code



Bank identifier



DE 12 1234 5678 12345 6789 00



Check number



Account number

# EXAMPLE - FINGER CALCULATION

- COUNTERSTRINGS
- JAMES BACH

$2 * 4 * 6 * 8 * 11 * 14 * 17 * 20 * 23 * 26 * 29 * 3$

$2 * 35 * 38 * 41 * 44 * 47 * 50 * 53 * 56 * 59 * 6$

$2 * 65 * 68$

# EXAMPLE - HTTPS://WWW.TENTAMEN.HR/TOOLS/NEW

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## Counterstrings

Counterstrings were created by James Bach. You can read more about counterstrins [here](#).

**Max length is 99999**

Create

## Counterstrings result

(hint: click into box, then copy/paste using keyboard shortcuts.)

```
2*4*6*8*11*14*17*20*23*26*29*32*35*38*41*44*47*50*53*56*59*62*65*68
```



# WRONG EXAMPLE

- SPREADSHEET

NAME	RESULT
Davor	PASS
Zeljko	PASS
Karlo	FAIL

- WHY?

# ADVANTAGES

- NO EXTERNAL DOCUMENTATION
- LARGE AMOUNT OF DATA (AUTOMATION)
- POST TEST ANALYSIS
- VERIFICATION NOT BASED ON UI
- VERIFICATION BASED ON LOGIC

# DISADVANTAGES

- TESTER MUST KNOW VERIFYING LOGIC
- LOGIC CHANGE  $\Rightarrow$  DATA CHANGE
- ONLY ORACLE  $\Rightarrow$  BUG MISS

# BBST FOUNDATION

- HOMESCHOOL =>  
<http://testingeducation.org/BBST/foundations/>
- PAID =>  
<https://www.associationforsoftwaretesting.org/courses/foundations/>
- <https://bbst.courses/bbst-foundations-test-design/> (CEM KANER)

# Q & A