



<http://www.edujudge.eu>

ES PROJEKTO „EDUJUDGE“ REZULTATAI MOKINIAMS IR MOKYTOJAMS

Valentina DAGIENĖ

*Matematikos ir informatikos institutas
dagiene@ktl.mii.lt*

Viktoras DAGYS

*Matematikos ir informatikos institutas
dagiene@ktl.mii.lt*

Bronius SKŪPAS

*Matematikos ir informatikos institutas
bskupas@ktl.mii.lt*



Education and Culture DG

Lifelong Learning Programme

PROJEKTO IDĖJA

GERIAUSIAI MOKOMĖS PROGRAMUOTI
VARŽYDAMIESI TARPUSAVYJE

PROJEKTO PIRMTAKAS

<http://online-judge.uva.es>

Sukurtas 1995 m.
64000 vartotojų
~2000 programavimo užduočių



<http://www.edujudge.eu>



UvA Online Judge - Home - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://uva.onlinejudge.org/

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

UvA Online Judge

Home

7430531 SUBMISSIONS **2584** PROBLEMS **89413** USERS **239** CONTESTS

1887-90 Old Judge N 172
Wide Variety of Commons, Stars, HOF We are all buying N172's
www.californiasportscards.com Ads by Google

Registration fixed

Since we moved to the new server some days ago, the registration system was not sending confirmation emails to new users. This has been fixed. To receive the confirmation mail just try to log in with you newly created username and password. Sorry for the inconvenience.

New Book: From Baylor to Baylor

From Baylor to Baylor preserves

Welcome to the UvA Online Judge

Here you will find hundreds of problems. They are like the ones used during programming contests, and are available in

Coming Contests

- Waterloo ACM Programming Contest Fall 1 2009-09-27 17:00:00 UTC
- Nordic Collegiate Programming Contest NCPG 2009 2009-10-03 09:00:00 UTC
- Waterloo ACM Programming Contest Fall 2 2009-10-03 17:00:00 UTC

Books in Computer Science
Programming Challenges
The Programming Contest Training Manual
Steven S. Skiena
Miguel A. Revilla
Springer

Login

Username
Password
 Remember me
Login
[Forgot login?](#)
No account yet? [Register](#)

Main Menu

- Home
- Contact Us
- TOOLS on the Old UvA OJ Site

Online Judge

Browse Problems

Done



<http://www.edujudge.eu>



UvA Online Judge - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&category=3

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

UvA Online Judge

Home > Browse Problems

Login

Username

Password

Remember me


[Forgot login?](#)
No account yet? [Register](#)

Main Menu

- Home
- Contact Us
- TOOLS on the Old UvA OJ Site
















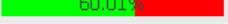




Online Judge

- Browse Problems**



Browse Problems

Root :: Problem Set Volumes :: Volume I

Title	Total Submissions / Solving %	Total Users / Solving %
<input type="checkbox"/> 100 - The 3n + 1 problem	377964 	48871 
<input type="checkbox"/> 101 - The Blocks Problem	55244 	11363 
<input type="checkbox"/> 102 - Ecological Bin Packing	57733 	15465 
<input type="checkbox"/> 103 - Stacking Boxes	25769 	6431 
<input type="checkbox"/> 104 - Arbitrage	20683 	3990 
<input type="checkbox"/> 105 - The Skyline Problem	35734 	8760 
<input type="checkbox"/> 106 - Fermat vs. Pythagoras	21868 	4500 
<input type="checkbox"/> 107 - The Cat in the Hat	33767 	5606 
<input type="checkbox"/> 108 - Maximum Sum	32207 	9613 
<input type="checkbox"/> 109 - SCUD Busters	8297 	2114 

Done



<http://www.edujudge.eu>



Uva Online Judge - Mozilla Firefox

http://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=23

Yearly Stats

	Total	ANSI C	JAVA	C++	PASCAL
1997	4035	3394 84.11%	0 0.00%	639 15.84%	2 0.05%
1998	42385	24705 58.29%	0 0.00%	13861 32.70%	3819 9.01%
1999	109240	44862 41.07%	0 0.00%	42247 38.67%	22131 20.26%
2000	199537	71908 36.04%	0 0.00%	95182 47.70%	32447 16.26%
2001	345380	124213 35.96%	3033 0.88%	187935 54.41%	30199 8.74%
2002	610327	227841 37.33%	13581 2.23%	305993 50.14%	62912 10.31%
2003	874934	282319 32.27%	37739 4.31%	481261 55.01%	73615 8.41%
2004	998079	279844 28.04%	41356 4.14%	607186 60.84%	69693 6.98%
2005	1050463	275072 26.19%	64898 6.18%	662540 63.07%	47953 4.56%
2006	999080	221527 22.17%	61753 6.18%	683963 68.46%	31837 3.19%
2007	914509	208201 22.77%	64820 7.09%	619656 67.76%	21832 2.39%
2008	730206	148029 20.27%	66993 9.17%	507447 69.49%	7737 1.06%
2009	552941	105269 19.04%	55393 10.02%	387484 70.08%	4795 0.87%
Total	7431116	2017184 27.15%	409566 5.51%	4595394 61.84%	408972 5.50%

Done

 Edu JUDGE

<http://www.edujudge.eu>



Education and Culture DG

Lifelong Learning Programme

SENOJO PROJEKTO TRŪKUMAI

1. Viskas tik anglų kalba.
2. Nėra geros užduočių klasifikacijos.
3. Sistema neleidžia mokytojui komplektuoti užduočių pamokai.
4. Mokinių rezultatus pažiūrėti galima, tačiau sistema nėra pritaikyta grupės mokinių (studentų) sprendimų stebėjimui.
5. Tas pats uždavinys turi skirtingą sunkumą skirtingoms mokinių (studentų) grupėms, tačiau skirtingas vertinamas nenumatytas.
6. Mokytojai gali nenorėti talpinti užduotis viešai prieinamoje erdvėje.



<http://www.edujudge.eu>



NAUJAS PROJEKTAS

Valjadolido universiteto iniciatyva pradėtas europinis projektas „Integrating Online Judge into effective elearning“ (EduJudge).

EduJudge turėtų pridėti mokomąją funkciją sistemai, pritaikyti ją virtualiai mokymo aplinkai Moodle, sukurti užduočių saugyklą su greita paieška pagal įvairius atributus, leisti atskirus komponentus instaliuoti įvairiose organizacijose, leisti išversti sąlygas ir aplinkas.



<http://www.edujudge.eu>



PROJEKTO PARTNERIAI

Valjadolido universitetas (Ispanija)

Porto universitetas (Portugalija)

Karališkasis technologijų institutas (Švedija)

Matematikos ir informatikos institutas (Lietuva)

Projektą koordinuoja

Kastilijos ir Leono regiono (Ispanija) telekomunikacijų plėtros centras (Centro para el Desarrollo de las Telecomunicaciones de Castilla y León – CEDETEL)



Universidad de Valladolid



<http://www.edujudge.eu>



Education and Culture DG

Lifelong Learning Programme

PROJEKTO KOMPONENTAI

- Užduočių saugykla (LOR)
- Užduočių tikrinimą koordinuojantis serveris (EEWS)
- Sprendimus tikrinanti sistema (kuriamą švedų KATIS sistemos pagrindu)
- Virtualios mokymo aplinkos Moodle modulis QuestTournament.



<http://www.edujudge.eu>



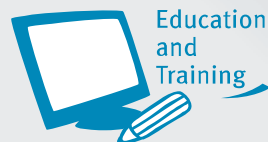
PROJEKTO KOMPONENTAI

Demonstruosime QUESTUORNAMENT naudojimą

Ne viskas dar funkcionuoja, trūksta vertimo.



<http://www.edujudge.eu>



Course: Programavimas (JPM) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://edujudge.tel.uva.es/moodletest/course/view.php?id=4&edit=1&sesskey=Mf2Gv0oKKe

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

Search Forums

On-line survey to assess the EdJudge pilot experiences

6 November - 12 November

13 November - 19 November

20 November - 26 November

27 November - 3 December

4 December - 10 December

11 December - 17 December

Administration

- Turn editing off
- Settings
- Assign roles
- Grades
- Groups
- Backup
- Restore
- Import
- Reset
- Reports
- Questions
- Files
- Unenrol me from jpmProg
- Profile

My courses

- yadas | programavima
- Paskaliu (Vilniaus Licėjus)
- Programavimas (JPM)
- All courses ...

EVENTS

Go to calendar...
New Event...

Recent Activity

Activity since Thursday, 5 November 2009, 07:51 AM
Full report of recent activity...

Nothing new since your last login

Blocks

Add...

QUESTournament

- Add an activity...
- Assignments
- Advanced uploading of files
- Online text
- Upload a single file
- Offline activity
- Chat
- Choice
- Database
- Edujudge module
- Forum
- Glossary
- Lesson
- Questionnaire
- QUESTournament
- Quiz
- SCORM/AICC
- Survey
- Wiki

Done



http://www.edujudge.eu



QUESTOURNAMENT

Priedami šio modulio objektą turime užpildyti nemažai laukų.



<http://www.edujudge.eu>



jpmProg: Editing QUESTournament - Mozilla Firefox

File Edit View History Bookmarks Tools Help

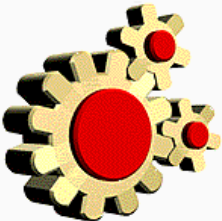
http://edujudge.tel.uva.es/moodletest/course/modedit.php?add=questournament&type=8&course=4&se bmv ventilatorius

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options

Programavimas (JPM)

You are logged in as Bronius Skupas (Logout)

Moodle Edujudge ► jpmProg ► QUESTOURNAMENTS ► Editing QUESTournament

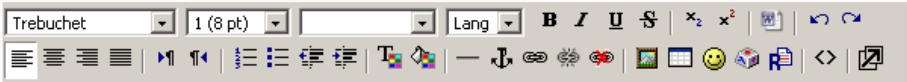


Adding a new QUESTournament to week 3 ?

General

QUESTournament name*

QUESTournament description*



Testing jpm

Path: body

Format HTML format

Done



<http://www.edujudge.eu>



Education and Culture DG

Lifelong Learning Programme

jpmProg: Editing QUESTournament - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://edujudge.tel.uva.es/moodletest/course/modedit.php?add=questournament&type=8&course=48&... bmv ventiliatorius

Bytes Maximum ? 10Kb

Validate Assesments ? No

Allow workteams ? No

Members ? 2

Show individual classification ? Yes

Show Author's Details In Grades ? No

Show Challenges Closed To Students ? No

Allow resubmit attempts ? No

Assessment Characteristics

Number of Assessment Elements for Authors ? 0

Max right answers by challenge ? 25

Type of grading ? Lineal

Time max of question ? 14

Initial time ? 3

Highest score ? 100

Initial score ? 100

Get Grades From ? Students

Percentage of Team Scoring ? 25

Common module settings

Group mode ? No groups

Done



<http://www.edujudge.eu>



QUESTOURNAMENT

Kitas žingsnis – kursime užduočių rinkinius (ang. challenge).



<http://www.edujudge.eu>



jpm1

Current phase of QUESTournament: Inactive QUESTournament
Starting date: Monday, 9 November 2009, 07:55 AM (1 day 23 hours)
Closing date: Monday, 16 November 2009, 07:55 AM (8 days 23 hours)
Max right answers by challenge: 25

Example Assessment Form for challenges

Description	Ranking				
Testing jpm	<table border="1"> <thead> <tr> <th>User</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">View Ranking</td> </tr> </tbody> </table>	User	Score	View Ranking	
User	Score				
View Ranking					

My Place

[Add challenge](#)

Title	Firstname / Lastname	Phase	Answers(Right)[Not assessed]	Starting on	Closing on ↑	Score
Pirma užduotis	Bronius Skupas	Complete pending	0 (0) [0]	11/9/09 07:55	11/16/09 07:55	100.0000

A (B) [C] ✓
 A: Answers. B: Correct Answers.
 C: Not assessed Answers. ✓ Shows if I have answered yet

[Moodle Docs for this page](#)

You are logged in as **Bronius Skupas** (Logout)

0.198 secs.
Done



<http://www.edujudge.eu>



Education and Culture DG
Lifelong Learning Programme

Programavimas (JPM)

Moodle Edujudge > jpmProg > QUESTOURNAMENTS > QUESTournament > Add challenge

[Update this QUESTournament](#)

Introduction and general parameters for the challenge: ?

Title:

Introduction to the challenge (optional):

Trebuchet 1 (8 pt) Lang

Path:

[? settings](#)

Challenge starts on: 9 November 2009 - 07 55 ?

Challenge ends on: 16 November 2009 - 07 55 ?

Max Score: 100 ?

Initial score: 100 ?

Done

QUESTOURNAMENT

Į užduočių rinkinį reikia įsidėti klausimų bei užduočių.

Galimi testinio tipo klausimai (tiek uždari tiek atviri).

Ir svarbiausia yra EduJudge tipo užduotys, kurių atsakymas yra mokinio sukurta programa. Šias programas sistema gebės patikrinti pagal testus.



<http://www.edujudge.eu>



jpmProg: Editing QUESTournament - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://edujudge.tel.uva.es/moodletest/mod/questournament/Main.php?cmid=12&do=editchallenges&id= bmv ventilatorius

Programavimas (JPM) You are logged in as Bronius Skupas (Logout)

Moodle Edujudge > jpmProg > QUESTOURNAMENTS > jpm1 > Editing QUESTournament Update this QUESTournament

Add question "Pirma užduotis"

Current phase: Complete pending
Starting date: Monday, 9 November 2009, 07:55 AM (1 day 23 hours)
Closing date: Monday, 16 November 2009, 07:55 AM (8 days 23 hours)
Answers: 0
Right answers: 0
Score: 100.0000

Bandomoji užduotis

Questions in this QUESTournament

No questions available

Question bank

Category Categoría para preguntas de Primera užduotis

Recurse
 Show hidden
 Show question text

Categoría de prueba

Create new question Choose...

- Choose...
- Calculated
- Description
- Edujudge**
- Essay
- Matching
- Embedded answers (Cloze)
- Multiple Choice
- Short Answer
- Numerical
- Random Short-Answer Matching
- True/False

[Continue](#)

Moodle Docs for this page

You are logged in as Bronius Skupas (Logout)

Done



<http://www.edujudge.eu>



QUESTOURNAMENT

EduJudge tipo užduočių kūrimas skiriasi nuo daugumos kitų klausimų tipų.

Čia klausimai parenkami iš siūlomų saugykloje.
(Saugykla pildyti nėra paprasta, bet galima)

O norint naudotis saugykla ir testavimo serveriu, juos reikia apibrėžti...



<http://www.edujudge.eu>



jpMProg: Editing Edujudge - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://edujudge.tel.uva.es/moodletest/question/question.php?category=16&cmid=12&returnurl=http%
 bmv ventiliatorius

Programavimas (JPM) You are logged in as Bronius Skupas (Logout)

Moodle Edujudge > jpMProg > QUESTOURNAMENTS > jpM1 > Editing QUESTournament > Editing Edujudge Update this QUESTournament

Adding Edujudge

General

Category

Question name*

Format

Image to display

Default question grade*

Feedback

Trebuchet 1 (8 p0) Lang

Path: body

Repositories

Available profiles list*

Look For

Question Name Chosen*

Chosen Question Text

Done

Profile Configuration:Repositories and Evaluation Server - Mozilla Firefox

http://edujudge.tel.uva.es/moodletest/question/type/edujudge/Browser/browserprofile.php

Profile

Profile Name	Repository Name	Evaluation Server Name
test	Test	Test

To create new profile, write profile name and select one evaluation server and one repository. Then click create.

Profile Name:

Repository servers

Repository Name	URL
Test	http://localhost:8080/

Evaluation servers

Evaluation Server Name	URL
Test	http://localhost:8000

Done



<http://www.edujudge.eu>



Education and Culture DG
Lifelong Learning Programme

Question Searcher - Mozilla Firefox

http://edujudge.tel.uva.es/moodletest/question/type/edujudge/Browser/demoBrowserEdujudge.php?profile=58

PROFILE

Profile Data

Profile: test
Repository: Test
Evaluation Server: Test

Search Terms

Title Keyword:

Author:

Type:

Instruction Level:

Difficulty:

Language:

Results:

Question Title	Description	Author	Type	Instruction Level	Difficulty	Language

Done



<http://www.edujudge.eu>



Education and Culture DG
Lifelong Learning Programme

QUESTOURNAMENT

Kadangi pilnai veikiančio pavyzdžio dar neturime, pažiūrėkime, kokios galimybės su testiniais klausimais.

Atkreipkite dėmesį į įverčio grafiką viršuje dešinėje.



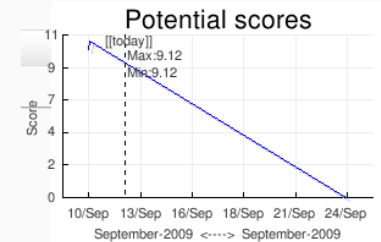
<http://www.edujudge.eu>





Current phase: Challenge in process
Starting date: Thursday, 10 September 2009, 11:50 AM (2 days)
Closing date: Thursday, 24 September 2009, 11:40 AM (11 days 23 hours)
Answers: 2
Right answers: 1

Score: 86.1416



Description

1

Marks: --/1

Which one of the following statements regarding C++ class inheritance is FALSE?

Choose one answer.

- a. Inheritance promotes generic design and code reuse.
- b. Struct cannot be inherited in C++.
- c. C++ supports multiple inheritance.
- d. Inheritance is a mechanism through which a subclass inherits the properties and behavior of its superclass.

Answer

Title	Firstname / Lastname	Phase	Date ↑	Actions	Calification
Test - C++ fundamentals ×	Student 1	Assessed by Teacher	09/ 11/09 12:07	Re-assess See assesment	0.0000 (0%) [max 9.8883]
Test - C++ fundamentals ×	Student 3	Assessed as correct by Author	09/ 10/09 14:02	Re-assess See assesment	10.5896 (100%) [max 10.5896]

Questournament langas Moodle sistemoje



<http://www.edujudge.eu>



Education and Culture DG
Lifelong Learning Programme

PROJEKTO DABARTINĖ BŪSENA

Dauguma komponentų yra bandymų stadijoje. Jie bus platinami pagal GPL licenziją.

Vykdomi komponentų integracijos darbai.

Matematikos ir informatikos institutas yra atsakingas už EduJudge bandymus realioje aplinkoje – mokykloje, universitete. Bandymai turi prasidėti šį rudenį.



<http://www.edujudge.eu>



EDUJUDGE GALIMO PANAUDOJIMO SCENARIJAI PAMOKOSE

1. Ruošiantis programavimo egzaminui ar olimpiadai. Užduotys gali būti pasirenkamos iš turimo uždavinių banko ar sukuriamos savos.
2. Mokiniai gali parengti užduotis kitiems.
3. Galima rengti varžybas tarp klasių.

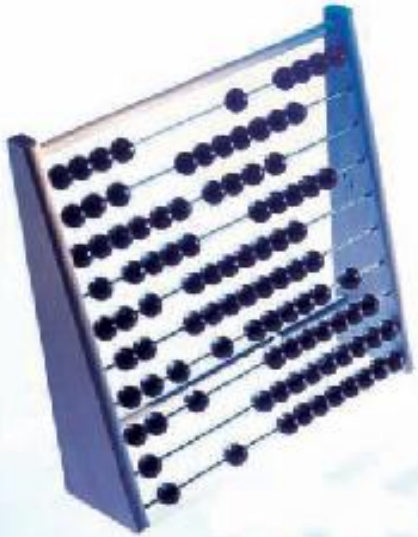


<http://www.edujudge.eu>



Edu JUDGE

– *programavimo
mokymo sistema
ateičiai*



Universidad de Valladolid

