

# 2017/1

## MÓDULO #2



**JAVA GROUP**  
**PROJETO FINAL**

# OLÁ!

## Eu sou Carlos Pereira

E estou aqui hoje para falar do meu projeto final,  
*Naive Online Judge*, qualquer dúvida entre em  
contato [carloshpereira27@gmail.com](mailto:carloshpereira27@gmail.com)

# 1.

## Naive Judge Online

Vamos falar  
sobre esse  
tema agora!

## *Online Judge*

- ▶ Sistema online.
- ▶ Repositório de problemas.
- ▶ Verificação de uma solução enviada por um usuário.
- ▶ Ranks:
  - ▷ quantidade de acertos,
  - ▷ tempo de execução,
  - ▷ consumo de memória.
- ▶ Fóruns de discussão.
- ▶ Organizam competições.

# Online Judge - URI Online Judge



PORTUGUÊS

REGISTRAR

FÓRUM

ACADEMIC

CONTESTS

PROBLEMAS

RANKS

## URI ONLINE JUDGE



O URI Online Judge é um projeto que está sendo desenvolvido pelo Departamento de Ciência da Computação da URI. O principal objetivo é promover a prática de programação e o compartilhamento de conhecimento.

**CRÉDITOS**

## REPOSITÓRIO DE PROBLEMAS



O URI Online Judge contém mais de 1000 problemas divididos em 8 grandes categorias. Esta divisão ajuda os usuários a focar em temas específicos. Todos os problemas estão

# URI

ONLINE JUDGE  
PROBLEMS & CONTESTS

**ENTRAR**

EMAIL

SENHA

☐ LEMBRAR-ME (7 DIAS)

**ENTRAR**

FACEBOOK

GOOGLE

LINKEDIN

GITHUB

BITBUCKET

TWITTER

**PRIMEIRA VEZ AQUI?**

**ENTRE** para ver materiais, resolver

## COMPETIÇÕES E RANKING

Resolva os problemas disponíveis utilizando C, C++, Java ou Python, competindo com os outros usuários. Como desafio, melhore seu ranking, resolvendo o máximo de problemas e aperfeiçoando seu código fonte.

**CONFIRA O RANKING**



## URI ONLINE JUDGE ACADEMIC

O URI Online Judge Academic é um módulo único para professores e coaches. Aqui você pode criar disciplinas e listas de exercícios. Você também pode acompanhar o



# Online Judge - URI Online Judge



Hi, Carlos Henrique Pereira  
carloshpereira27@gmail.com

[HOME](#)[PERFIL](#)[NEWS](#)[ACADEMIC](#)[CONTESTS](#)[FÓRUM](#)[PROBLEMAS](#)[SUBMISSÕES](#)[RANKS](#)[SAIR](#)

**URI**  
ONLINE JUDGE  
PROBLEMS & CONTESTS



## TOP 20

Maycon Alves  
Gabriel Duarte  
Gustavo Policarpo  
Thalyson Nepomuceno  
Luis Fernando Ver...  
Wyllian Brito  
Felipe Mota  
Leonardo Blanger  
[Traveling Baloon...  
Marcello Marques  
Erick Leonardo de



## DASHBOARD

ESTE É O SEU DASHBOARD. AQUI VOCÊ ENCONTRARÁ ALGUMAS COISAS INTERESSANTES.

SEU PROGRESSO @ DIA 655

**24.35%**

26/09/17 12:54



### PROBLEMAS

Pesquise em nosso repositório,  
dividido em 8 categorias.

[PESQUISAR](#)



### NOVOS

Os últimos problemas incluídos em  
nosso repositório em um só lugar!

[PESQUISAR](#)



### RANK

Confira o rank principal do URI  
Online Judge,

[VISUALIZAR](#)



### UNIVERSIDADES

Selecione sua Universidade e cheque  
o rank.

[PESQUISAR](#)



### CONTESTS

Pratique para competições de



### NEWS

Confira as últimas novidades sobre o














# Online Judge - Sphere online judge

## Become a true programming master

Learn how to code and build efficient algorithms

20229575 submissions, 541296 registered users, 6360 public problems

Sign up & Start coding!

Topic	Users	R	V	A
Any Hints on NWERC11A?		1	14	2d
Acode		1	16	3d
Needed Some Help with MATRMULO problem	 	3	31	4d
Are there real dataset for SHPATH available for tests?	 	2	77	4d
Status showing wrong runtime	 	2	23	4d
WA in ALICECUB	    	10	59	5d

 **SPojline judge**  
20 552 polubienia

**Become a true programming master**  
Learn how to code and build efficient algorithms

 Polub tę stronę  Zarejestruj się

Bądź pierwszą osobą wśród znajomych, która to polubi





# Online Judge - Sphere online judge



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[Users](#) [Countries](#) [Problem setters](#) [Languages](#) [Institutions](#)

## Problem Solvers' Hall of Fame

< Previous 1 2 3 4 5 6 7 8 9 10 11 Next >

RANK	CC	NAME	CLASSICAL	CHALLENGE	SCORE
1		[Rampage] Blue.Mary	2438.3 (3467)	44.6 (12)	2482.9
2		:D	1106.2 (1910)	11.0 (2)	1117.1
3		SourSpinach	1061.7 (2036)	5.7 (0)	1067.3
4		Oleg	1012.9 (2168)	4.3 (1)	1017.2
5		Robert Gerbicz	447.3 (1212)	96.3 (17)	543.6
6		Lox	515.9 (796)	3.7 (0)	519.6
7		Mitch Schwartz	234.9 (616)	283.4 (81)	518.3
8		Hodobox	480.2 (1164)	4.3 (0)	484.5
9		Min_25	434.7 (736)	42.4 (13)	477.1
10		shihanyuan	442.0 (869)	0.0 (0)	442.0
11		Mehmet Inal	413.9 (1127)	16.2 (0)	430.1



# Online Judge - Sphere online judge



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**Classical** [Challenge](#) [Partial](#) [Tutorial](#) [Riddle](#) [Basics](#)

## list of classical problems

ID	NAME	QUALITY	USERS	ACC %	DIFFICULTY C I
1	Life, the Universe, and Everything	170	116502	32.85	<div><div></div></div>
2	Prime Generator	309	37512	15.36	<div><div>17</div><div>15</div></div>
3	Substring Check (Bug Funny)		775	10.30	<div><div>42</div><div>11</div></div>
4	Transform the Expression	98	23393	48.71	<div><div>1</div><div>1</div></div>
5	The Next Palindrome	232	11852	10.01	<div><div>24</div><div>19</div></div>
6	Simple Arithmetics	4	1990	12.29	<div><div>31</div><div>8</div></div>
7	The Bulk!	3	329	26.63	<div><div>30</div><div>17</div></div>
8	Complete the Sequence!	18	2037	32.78	<div><div>15</div><div>16</div></div>
9	Direct Visibility		196	18.56	<div><div>34</div><div>34</div></div>
10	Complicated Expressions	3	688	26.14	<div><div>11</div><div>6</div></div>

### Most popular tags

#dynamic-programming (250)  
#ad-hoc-1 (153) #math (98) #tree (85)  
#number-theory (79) #binary-search (70)  
#bfs (39) #simple-math (38) #bitmasks (37)  
#ad-hoc (34) #graph-theory (33)  
#big-numbers (31) #basics (31)  
#backtracking (28) #sorting (26)  
#geometry (24) #greedy (23)  
#shortest-path (22) #simpleoperator (22)  
#dfs (21) and 299 more...



# Online Judge - UVA

UVA

Online Judge

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**Online Judge**

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My Statistics

My uHunt with Virtual Contest Service

Browse Problems

Quick access, info and search

Problemsetters' Credits

Live Rankings


Site Statistics

Contests

Electronic Board


Welcome to the UVA Online Judge

1995




Miguel

2000




Shahriar

2001




Carlos

2004




Miguel Jr.

2008




Rujia

2010



Felix

2014



Vinit

UVA Online Judge Members

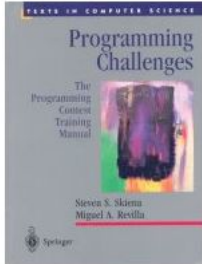
Here you will find hundreds of problems. They are like the ones used during programming contests, and are available in HTML and PDF formats. You can submit your sources in a variety of languages, trying to solve any of the problems available in our database.

See the new [Contest Rankings](#) section at the Live Rankings link.

Now you can use the new **Quick access, info and search** option on the left menu for and easier navigation. (The tool will be updated next days for a more complete information)

Follow us on Twitter [@UVAOnlineJudge](#) !!

**Are you proud of your solutions? Do you have anything to show the rest of the problemsolvers? We're looking for people to help us in the publishing of a collection of books with solutions for the problems in the UVA Online Judge. More information [here](#).**



**Coming Contests**  
(click to see your local time)  
  
XV Programming Olympiads in Murcia (Spain)  
**2017-10-06 14:00:00 UTC**

UVA

Hunting

Warmup contests in the uHunt Training Series 2015

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# Online Judge - UVA

UvA

## Online Judge

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Google Custom Search

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### Authors Ranklist

#	User	Problems solved	Problems tried	Total submissions
1	Josh Bao	4890	4900	17648
2	try	4853	4855	7122
3	Brian Fry	4365	4436	13341
4	Krzysztof Stencel	4283	4303	9409
5	evandrix	4072	4132	8511
6	yleewei	4034	4059	4917
7	Neal Zane	3567	3681	6987
8	dreamoon	3365	3432	10181
9	morris821028	3287	3304	10237
10	nehc	3142	3150	11503
11	黄汉升	3090	3606	163733
12	张翼德	3084	3623	163727
13	马孟起	3070	3631	164259
14	Bob	3064	3576	156537
15	关云长	3054	3616	162837
16	Bill	3044	3562	157020
17	赵子龙	3041	3622	164468
18	Jim	3025	3572	156978

# Online Judge - UVA

UVa

## Online Judge

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Google Custom Search Search

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**Browse Problems**  
Quick access, info and search  
Problemsetters' Credits  
Live Rankings  
Site Statistics

### Browse Problems

Root :: Problem Set Volumes (100...1999) :: Volume 1 (100-199)

Title		Total Submissions / Solving %	Total Users / Solving %
✓ 100 - The 3n + 1 problem		753294 26.70%	113473 73.09%
✓ 101 - The Blocks Problem		97287 22.30%	20378 68.08%
✓ 102 - Ecological Bin Packing		97569 38.00%	27980 87.00%
103 - Stacking Boxes		42122 26.10%	11012 58.61%
104 - Arbitrage		30218 23.00%	6183 67.28%
✓ 105 - The Skyline Problem		54186 24.61%	13364 66.51%
✓ 106 - Fermat vs. Pythagoras		28237 33.30%	6460 66.11%
✓ 107 - The Cat in the Hat		50147 30.89%	8482 67.34%
✓ 108 - Maximum Sum		58888 42.03%	19244 82.49%
✓ 109 - SCUD Busters		12498 30.44%	3204 67.38%
110 - Meta-Loopless Sorts		11350 29.70%	3130 62.59%
✓ 111 - History Grading		30548 43.67%	11894 76.53%
✓ 112 - Tree Summing		36447 27.23%	7293 77.54%
✓ 113 - Power of Cryptography		59977 40.18%	19948 88.71%
✓ 114 - Simulation Wizardry		8375 31.80%	2351 74.44%
✓ 115 - Climbing Trees		7053 33.70%	2067 80.94%
116 - Minimum 1-SPR		58116 25.53%	8888 59.09%

# Online Debug - uDebug

[Problems](#)[Contributors](#)[Sign In](#)

Enjoy competitive programming? Great!

Engage with fellow-programmers and be part of a democratic culture!

We are an enthusiastic community of competitive programmers who help each other out by answering questions on chat, providing hints and solutions to problems from several online judges, furnishing test input and sharing feedback. We do all this while having fun and fostering a sense of camaraderie!

11940

problems

8

judges

1

community

Select a problem or [browse problems](#)

All Judges



Problem title or ID

Search

## What Is uDebug?

On uDebug, you can select a problem you've coded up a solution for, provide input, and get

## Why Choose uDebug?

Discuss issues with your code with other programmers on the chat.

## Who Loves uDebug?

uDebug is not only an amazing community for people learning programming and algorithms, it is also the perfect complement to UVa Online Judge. I have been waiting years for such a platform in order to fix

# Online Debug - uDegub

Select Input (6)

Sign Up to Vote Input

	User	Date	Votes	
1	URI Online Judge	27 Jul 2016 01:48:30	60	👍 🗑️ 🚩
2	icarodantas123	29 Jul 2016 03:43:55	53	👍 🗑️ 🚩
3	URI Online Judge	27 Jul 2016 01:49:53	52	👍 🗑️ 🚩
4	Shah Shishir	20 Aug 2016 21:51:30	33	👍 🗑️ 🚩
5	matheuslealv	08 Jun 2017 01:40:54	5	👍 🗑️ 🚩
6	terencevitor	10 Aug 2017 00:55:01	3	👍 🗑️ 🚩

Add Input Delete Input

4  
7

Copy Input

Get Accepted Output



# Online Debug - uDegub

Accepted Output



Copy Output

Clear

Your Output


1. Run your code with the same input as above.
2. Paste your output here.
3. Press "Compare Outputs".

Clear




Compare Outputs



# Online Judge - HackerEarth

 DESAFIOS PRÁTICA EMPRESAS

Pesquisar desenvolvedores, problemas, etc.





8

8

Programming Challenges & Coding Competitions

LIVE 8 UPCOMING 12 PREVIOUS



4229

MACHINE LEARNING



Deep Learning Challenge ...

ENDS IN

04 : 05 : 19

DAYS HOURS MINUTES

START NOW



4598

RATED



September Circuits '17

ENDS IN

06 : 02 : 20

DAYS HOURS MINUTES

START NOW



1261



HACKATHON

SMB Challenge

College challenges are currently hidden.  
Select this to view these challenges.

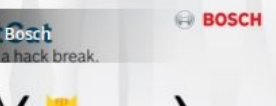

CLOSE

START NOW





KPMG

The Fintech Valley Vizag  
FINACKATHON 2017



Bosch

hack break.



HackerEarth

REMINDER SETTINGS ?

Email ON

SMS OFF

CHALLENGE TYPE ?

☒ Competitive Challenges

☒ Hackathons

☒ Hiring Challenges (Jobs)

☒ College Challenges

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LIVE EVENTS

?

# Online Judge - HackerEarth

## ALL TRACKS



### Basic Programming

Input/Output, Complexity Analysis, Implementation, etc.

THIS WEEK'S LEADER



HarshAzad

POINTS

352,5



### Data Structures

Arrays, Stacks, Queues, etc.

THIS WEEK'S LEADER



Dharmendra Kumar

POINTS

283,7



### Algorithms

Searching, Sorting, Greedy Algorithms, etc.

THIS WEEK'S LEADER



Chaitanaya Ande

POINTS

285,6



### Math

Number Theory, Combinatorics, Geometry

THIS WEEK'S LEADER



Nitin Tushir

POINTS

300,0



### Machine Learning

Statistics, Data Manipulation ..., Machine Learning ..., etc.





### Python

Getting Started, Working with ..., Object Oriented ..., etc.



# Online Judge - topcoder



COMPETELEARNCOMMUNITYCarlosPereira | 🔍


CarlosPereiraDASHBOARD

Announcement


**Five Weeks to Learn Topcoder:** Five weeks of learning - we'll be teaching you how to compete at Topcoder!

+



 Suporte

# Online Judge - topcoder

COMPETELEARNCOMMUNITYCarlosPereira

ChallengesSRMs

Search Challenges

DesignDevelopmentData ScienceFilters

Open for registration

Sort by: Most recent

<div>F2FTCO</div>	<b>UI for Transition Execution Support link 1200 points developer 300 for reviewer</b> Ends Oct 02Sharepoint 3.0	<div>\$ 0</div> Purse	<div>Submission</div> <div>5d 23:24h to go</div>	<div>1</div> <div>2</div>	<div>23:23h</div> <div>to register</div>
<div>CdTCO</div>	<b>Social Bike Owner App iOS - Prototype App Part 3</b> Ends Oct 01SwiftiOS	<div>\$ 1,800</div> Purse	<div>Submission</div> <div>4d 23:24h to go</div>	<div>0</div> <div>0</div>	<div>1d 23:23h</div> <div>to register</div>
<div>CdTCO</div>	<b>Project Atlas Sharepoint App - Build Import UI Add-In Functionality</b> Ends Oct 01.NETC#Sharepoint 3.0	<div>\$ 3,000</div> Purse	<div>Submission</div> <div>4d 22:27h to go</div>	<div>3</div> <div>0</div>	<div>3d 22:26h</div> <div>to register</div>
<div>CdTCO</div>	<b>Ideation: Passport &amp; Visa Analyzer</b> Ends Oct 05Other	<div>\$ 1,800</div> Purse	<div>Submission</div> <div>9d 8:26h to go</div>	<div>25</div> <div>0</div>	<div>9d 8:25h</div> <div>to register</div>
<div>TCO</div>	<b>Ohio Deferred Compensation - Responsive</b>	<div>\$ 3,750</div>	<div>Checkpoint</div>	<div>36</div> <div>1</div>	

All Challenges49

Open for registration22

Ongoing challenges27

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Upcoming challenges0

Past challenges

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My Filter 1


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Supporte

# Online Judge - topcoder

COMPETELEARNCOMMUNITYCarlosPereira


Competitive Programming



Test your **algorithm skills**.  
Compete head-to-head in the Topcoder Arena!

[PROBLEM ARCHIVE](#)[PAST SRMS](#)


[LAUNCH WEB ARENA \(BETA\)](#)[LAUNCH APPLET ARENA](#)



### Competitive Programming at Topcoder

### Member Tutorials

- [The Importance of Algorithms](#)
- [How to Dissect a Topcoder Problem Statement](#)
- [Mathematics for Topcoders](#)
- [How to Find a Solution](#)
- [Dynamic Programming: From Novice to Advanced](#)

 Suporte

## *Online Contest - Facebook Hacker Cup*





# Online Contest - Google code jam

**code jam** WHAT LANGUAGE  
DO YOU SPEAK?

print "hello, world!"

Dublin, Ireland 2017

#CodeJam2017



## *Naive Online Judge*

- ▶ Aplicação Java Web
- ▶ Spring MVC
- ▶ Hibernate
- ▶ MySQL



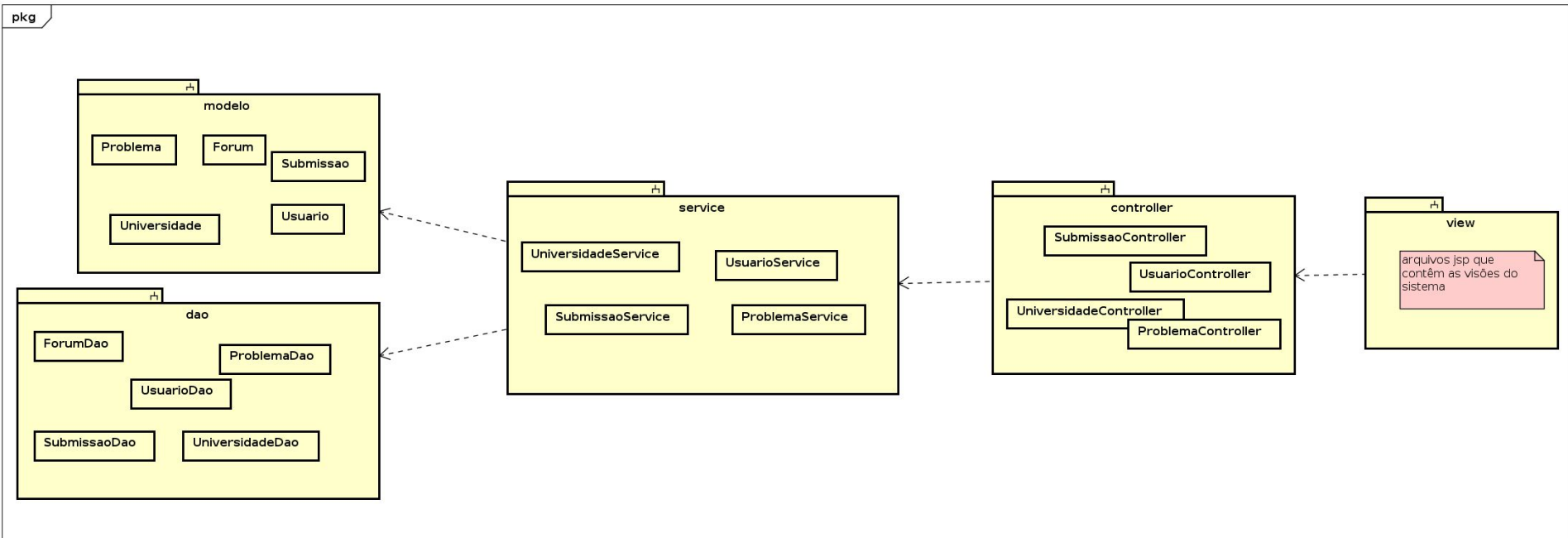
spring

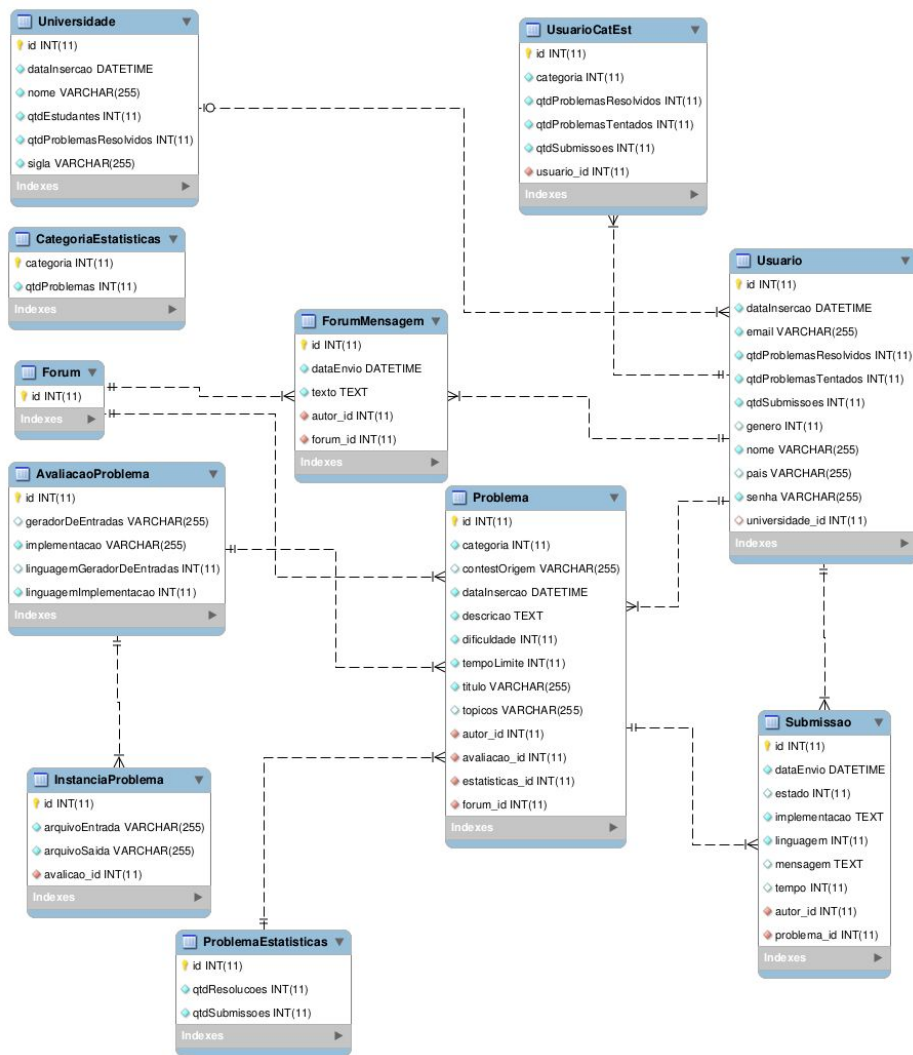
by Pivotal™



HIBERNATE

# Naive Online Judge - Arquitetura





# Naive Online Judge - Modelo EER

**OBRIGADO!**

Dúvidas?