# [TOPCODER]

### TopCoder 国际程序挑战赛北京区域赛

一、注册概述

[] 三个步骤完成注册

第一步:请在 www.topcoder.com/reg 注册为 TopCoder 成员。

第二步:TopCoder 为此次赛事建立了北京区域赛网页 <u>www.topcoder.com/beijing</u>。请访问区域赛网页,并且点击"registration"注册参加本次比赛。之后您可以点击"registrants"就可以看到所有注册成功的 ID,确认自己是否注册成功。

第三步:请在 <u>www.topcoder.com/tc</u>下载 TopCoder Arena。在 5月 24 日 11:00 至 13:

55 登陆 Arena, 点击 Active Contests, 在这个菜单下找到 TopCoder 北京赛, 然后点击 "Register"表示确认参加比赛。

# 二、如何注册为 TopCoder 成员

[] 登陆 <u>www.topcoder.com/reg</u> ,并且选择第一个选项。

#### 

#### Registration

( <u>Click here</u> if you're already a registered member and would like to update your profile.) What would you like to do as a registered TopCoder member? Check all that apply.
Before registering, please read our <u>Message from the TopCoder Founder</u>
You have not selected to register for any aspect of TopCoder.  Competition Registration tell me more

High School (Secondary School) Registration tell me more...

#### [] 填写注册信息

请确保您的姓名、地址和电子邮箱填写正确,注意填写的信息请不要包含中文字符。

	[Top <b>C</b>	CODER]	0		
Registration					
* Given Name:	Fang			Step	o 2 of 6
* Surname:	You		Se	elect Your Registra ieneral	ition
* Address1:	Box 1503, Beijing Nc		De	emographics	
Address2:			S	nfirm iccess	
Address3:			Ae	tivation	
* City:	Beijing				
State (US Only):					
Province:					
* Country:	China	~			
* Country to represent:	China	*			
* Timezone:	Asia/Shanghai	*			
Phone Number:					
* Email Address:	angelwill@126.com				
* Confirm Email Address:	angelwill@126.com				

[] 在"How did you hear about TopCoder"部分选择 Member Referral



### [] 在您的电子邮件中激活 TopCoder 会员帐户

日期:	2006-10-2017:09:57(5分钟 前)
发件人:	service@topcoder.com 🛃 添加到通讯录 🚒 拒收 哅 邀请 📠 短信回复
收件人:	angelwill@126.com
主题:	TopCoder Activation (新窗口打开)

Thank you for registering with TopCoder!

Your TopCoder activation code is MB3NDPZXHH

To activate your account, navigate to the following WWW URL: http://www.topcoder.com/reg/?module=Activate&code=MB3NDPZXHH

# 三、注册为北京区域赛参赛选手

#### [] 如何注册参加北京区域赛

请在区域赛网站 <u>www.topcoder.com/beijing</u>上面找到注册链接。如下图所示,访问区域 赛网页,并且点击"registration"。



#### []点击"Registrants",在已注册的成员里面找到您自己。

#### **College Tour**

Instructions



Discuss this event

Algorithm Competition: Overview | Instructions | Registration | Registrants

Handle coldwindtang xyjian acsaga

# 四、如何更成功的使用 TopCoder Arena

[] 请在 <u>www.topcoder.com/tc</u>下载 TopCoder Arena



- [] 访问"Practice Rooms"进行练习,从而在比赛中取得更好的成绩。
  - 我们有所有之前的比赛试题,供您进行练习。
  - 您可以看到所有选手的答案,包括世界冠军在比赛中所写的题目源代码。
  - 您可以试着去解决问题,系统会给您一个分数。
  - 如果您的程序在某些测试数据下无法通过,系统会提示您在哪些测试数据出错了。

🚔 TopCoder						
[Top <b>Co</b>	DER]	Also try Softwa Design & Developmen	re It	Bloomberg	Sponsor of the	PCODER
Main  COMPET  Single Round N  RATING KEY. 2004 1500-2199 1200-1499 0001-0299 NON-RATED ADMIN  MESSAGES  LEADER BOARD	Lobbies ITION ARE Match 323 is in progress Who's here [27] R Handle Oxhi_kogitsun wuszu Wilu Own Smell Own Smell OPMH PennyO nshekhar Natrosh Natrosh Natrosh Natrunas K.O.T. OJuLLaSS Opkerspb	Developmen Options N A > Lobby: Chat Syst	Practice Rooms	Active Contests 1-10 17-32 33-48 49-64 65-80 81-90 97-112 113-128 129-144 146-160 161-176 161-176 161-176 161-276 209-224 255-240 225-240 25-25 25-25	Help           1 - SRM 144 DIV 1           2 - SRM 144 DIV 2           3 - SRM 145 DIV 1           4 - SRM 146 DIV 2           5 - SRM 146 DIV 2           5 - SRM 146 DIV 1           8 - SRM 146 DIV 2           7 - SRM 147 DIV 1           8 - SRM 148 DIV 2           9 - SRM 148 DIV 2           10 - SRM 149 DIV 1           12 - SRM 149 DIV 1           13 - SRM 150 DIV 2           14 - SRM 150 DIV 2           15 - SRM 151 DIV 1           16 - SRM 151 DIV 2           17 - SRM 151 DIV 2           18 - SRM 151 DIV 2           19 - SRM 151 DIV 2	
	Ojan_holmes Ogrigorg Odpetrovich ODaMi3n		Chat Find		32	

- 您可以不停的完善你的程序直到通过系统测试。

# 五、如何在 TopCoder Arena 下进行比赛

[] 在比赛开始前启动 TopCoder Arena。请点击 Active Contest,进入 区域赛并且点击 Register 表示参加本次比赛。



[] 战斗开始: 激活北京区域赛, 选择题目开始比赛!

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[7	Top <mark>Co</mark> t	DER]	Also try S Desig Develor	oftware jn & oment	Bloomberg	Sponsor of the	CPCODER
Main		Lo <u>b</u> bies	Options	Practice Rooms	Practice Options	<u>A</u> ctive Contests	<u>T</u> ools
	COMPET	ITION A	RENA : SRM 1	44 DIV 1		Connection Status	•
	Coding, viewing	g source, and cha	illenging are always	enabled in practice room	s	00:00:00	····J — — — — — — — — — — — — — — — — —
		Who's ass	igned [2331] 🛛 👖	CODING PHASE 2 INTERM	ISSION 3 CHALLENGE PH	ASE 4 SYSTEM TES	TING PHASE
	RATING KEY. 22000- 1500-2199 1200-1499 0000-1399 NON-RATED ADMIN	R Handle Guruk parakra assista P1ay3r M_Elay3r foa a.moun _Snake superro	m E S ht I S le 1 ir86 ck E	electone electone 00 50 100 etant has	COMPETITIC Select a prot	ON STATUS : 1. CODI liem from the problem	NG PHASE list
		Who's here R Handle • zachary vircom1 sudhee studymo NickeNy michalz lurenfu	e (16) chen A 3 rkumark b buse fiken	Chat Find			

# [] 在三道题目中选择一个打开。页面上方为题目描述,页面下方是

代码编写区域。

🚔 TopCoder Competition Arena - Coding Phase			
		Connection Sta	tus: 🗢 🛡
Class Name: BinaryCode Return Type; String] Method Name: decode Arg Types: (String)		CODING 00:00:0	<b>.</b>
	Choose your editor:	KawigiEdit	~
Bloomberg Sponsor of the	Choose your language:	⊚Jawa ⊜C++ ⊝C#	O VB
Problem Statement			
Let's say you have a binary string such as the following:			
One way to encrypt this string is to add to each digit the sum of its adjacent on 123210122 In particular, if P is the original string, and Q is the encrypted string, then Characters off the left and right edges of the string are treated as zeroes.	ligits. For example, the abov Q[i] = P[i-l] + P[i] + P[i+l] for	e string would become: c all digit positions	i. 💌
Coding Area			2020202020208
Source Code Test Code Compile Output Local Code			
<pre>import java.util.equex.*; import java.util.reqex.*; import java.text.*; import java.text.*; import java.aut.gen; f public class BinaryCode { public String[] decode(String message) (</pre>			
Generate Code Config Run Tests Save	Load		
MESSAges	BAVE CLEAR	OMPILE TEST S	ивміт

# []编码结束后进行测试。

Problem Arguments	×
Instructions	
Select an example from the drop-down lis	, or create
your own custom arguments to test with.	
(1) String message	
OK Cancel	

#### [] 在75分钟的编码和测试之后。

- [] 休息一会儿,和世界知名的程序员聊会儿天~
- [] 准备参加挑战环节。



[] 进入挑战窗口,选择一个未被挑战的题目,右键之后点击Source 看该题的源代码。

# [] 挑战!如下图所示,点击屏幕中的Summary按钮。

Inst	ructions				
Dur use	ing the challenge phas r's source code, or to c	se, you can right click on su challenge the validity of the t	bmitted problems to Jser's problem.	) view a	CODING 00:00:00
				P	retty:
<b>טפנ</b> ו א	alls lable R Handle	300	550	1100	Score
	Grimbal	299.60	548.25	1099.00	1996.85
2	⊖w_	300. Source	549.99	1099.99	1949.98 📛
3	dru1d	Challenge . cceeded	549.99	1099.98	1749.97
	©vlad89	299.98	522.50	543.66	1391.14
5	Savior	277.65	417.03	433.53	1128.21
i	hamdanil	Opened	Unopened	0.00	1096.57
	bjoeris	247.32	307.91	426.05	981.28
}	🗢 lkki	299.99	549.98	Unopened	849.97
}	yearh	299.98	549.45	Unopened	849.43
0	\varTheta ainu7	90.00	404.03	339.18	833.21
1	OKooKyungryeol	90.00	311.23	Opened	776.23
2	OIMUSM	274.14	500.03	Opened	774.17
3	OlvanP	161.92	240.18	330.00	707.10
4	wongsuun	144.26	219.88	330.00	694.14
	O a suble a sub-	100.02	460.00	Opened	660.02

# [] 点击 "Challenge" 并且为您的竞争者写一组测试数据。

≝ Grimbal's 300-pointer (Java)	<u>_0×</u>
Problem Statement	
Problem Statement	
Let's say you have a binary string such as the Following:	
ווחחווו	
Source Code	
String str = "";	
boolean ok ≔ true;	
For( int i=0 ; i <size )<="" ;="" i++="" td=""><td></td></size>	
IF( P[I]<0    P[I]>1 )	
ok = False;	
k and the second s	
str ara P[i];	
iF( size>=2 && P[size=1]+P[size=2]!=Q[size=1] ) ok = False:	
if( size==1 && P[size=1]!=Q[size=1] ) ok = False:	
[F[ pk ]]	
res First  = str:	
Challenge	

[] 如果您挑战的代码在您的测试数据下返回错误的结果,您就赢得

50 分。否则,您将被减去25分。



#### [] 在比赛结束后。

- [] 等待系统测试
- [] 看到您和其他人的最终成绩

Thanks for Your Interest and Good Luck with Your Contest