**Raihat Zaman Niloy Vai ( WF - 2016 && 2017 )  
  
Easy to Hard. https://static.xx.fbcdn.net/images/emoji.php/v9/t6/1/32/1f642.png?_nc_eui2=AeHLhEUuPnjs-8wRX5bG83Wlpsb1hTylBSFKu2OMvcaRQ_RFdQTlGm-j9wZKjkzDOd8zXRhfB6uj9U0_LTATx20dr4KYJ3ADUOP70D5b2IxqMw:)**

1. 10071 - Back to High School Physics -- AC

2. 11172 - Relational Operator -- AC

3. 10783 - Odd Sum -- AC

4. 11715 - Car -- AC

5. 10327 - Flip Sort -- AC

6. 11461 - Square Numbers -- AC

7. 11332 - Summing Digits -- AC

8. 11479 - Is this the easiest problem? -- AC

9. 11547 - Automatic Answer -- AC

10. 10591 - Happy Number -- AC

11. 299 - Train Swapping -- AC

12. 11777 - Automate the Grades -- AC

13. 11455 - Behold my quadrangle -- AC

14. 11958 - Coming Home

15. 579 - Clock Hands

16. 11650 - Mirror Clock

17. 11677 - Alarm Clock

18. 10347 - Medians -- AC

19. 10812 - Beat the Spread! -- AC

20. 11743 - Credit Check -- AC

21. 10370 - Above Average -- AC

22. 10323 - Factorial! You Must be Kidding!!! -- AC

23. 11185 - Ternary -- AC

24. 11984 - A Change in Thermal Unit -- AC

25. 438 - The Circumference of the Circle

26. 11152 - Colourful Flowers -- AC

27. 10970 - Big Chocolate -- AC

28. 10300 - Ecological Premium -- AC

29. 11799 - Horror Dash -- AC

30. 10195 - The Knights Of The Round Table

31. 11000 - Bee -- AC

32. 100 - The 3n + 1 problem -- AC

33. 371 - Ackermann Functions -- AC

34. 10696 - f91 -- AC

35. 488 - Triangle Wave -- AC

36. 11219 - How old are you? -- AC

37. 10499 - The Land of Justice -- AC

38. 10432 - Polygon Inside A Circle

39. 12342 - Tax Calculator

40. 11608 - No Problem -- AC

41. 11636 - Hello World! -- AC

42. 10221 - Satellites

43. 11417 - GCD -- AC

44. 11388 - GCD LCM -- AC

45. 10346 - Peter's Smokes -- AC

46. 11044 - Searching for Nessy -- AC

47. 11877 - The Coco-Cola Store -- AC

48. 11150 - Cola -- AC

49. 694 - The Collatz Sequence -- AC

50. 11689 - Soda Surpler -- AC

51. 11934 - Magic Formula -- AC

52. 12149 - Feynman -- AC

53. 10693 - Traffic Volume -- AC

54. 1124 - Celebrity jeopardy -- AC

55. 11614 - Etruscan Warriors Never Play Chess -- AC

56. 10773 - Back to Intermediate Math -- AC

57. 10451 - Ancient Village Sports

58. 10302 - Summation of Polynomials -- AC

59. 10784 - Diagonal

60. 11875 - Brick Game -- AC

61. 10991 - Region

62. 11805 - Bafana Bafana -- AC

63. 10079 - Pizza Cutting -- AC

64. 591 - Box of Bricks -- AC

65. 12372 - Packing for Holiday -- AC

66. 483 - Word Scramble -- AC

67. 11850 - Alaska -- AC

68. 10921 - Find the Telephone -- AC

69. 12015 - Google is Feeling Lucky -- AC

70. 10041 - Vito's Family -- AC

71. 11530 - SMS Typing -- AC

72. 10945 - Mother bear -- AC

73. 900 - Brick Wall Patterns -- AC

74. 10110 - Light, more light -- AC

75. 382 - Perfection -- AC

76. 10235 - Simply Emirp -- AC

77. 494 - Kindergarten Counting Game -- AC

78. 11364 - Parking -- AC

79. 294 - Divisors -- AC

80. 11764 - Jumping Mario -- AC

81. 10924 - Prime Words -- AC

82. 11713 - Abstract Names -- AC

83. 11942 - Lumberjack Sequencing -- AC

84. 10038 - Jolly Jumpers -- AC

85. 10035 - Primary Arithmetic -- AC

86. 10469 - To Carry or not to Carry -- AC

87. 10286 - Trouble with a Pentagon

88. 11389 - The Bus Driver Problem -- AC

89. 11734 - Big Number of Teams will Solve This -- AC

90. 10127 - Ones -- AC

91. 10633 - Rare Easy Problem -- AC

92. 913 - Joana and the Odd Numbers

93. 713 - Adding Reversed Numbers

94. 11900 - Boiled Eggs -- AC

95. 10490 - Mr. Azad and his Son!!!!! -- AC

96. 10929 - You can say 11 -- AC

97. 11879 - Multiple of 17 -- AC

98. 136 - Ugly Numbers -- AC

99. 11936 - The Lazy Lumberjacks -- AC

100. 10310 - Dog and Gopher

101. 10792 - The Laurel-Hardy Story

102. 12032 - The Monkey and the Oiled Bamboo -- AC

103. 10008 - What's Cryptanalysis? -- AC

104. 11313 - Gourmet Games -- AC

105. 458 - The Decoder -- AC

106. 11059 - Maximum Product

107. 11577 - Letter Frequency -- AC

108. 10062 - Tell me the frequencies! -- AC

109. 10222 - Decode the Mad man -- AC

110. 272 - TEX Quotes -- AC

111. 499 - What's The Frequency, Kenneth? -- AC

112. 10082 - WERTYU -- AC

113. 10789 - Prime Frequency -- AC

114. 11716 - Digital Fortress -- AC

115. 11483 - Code Creator -- AC

116. 10070 - Leap Year or Not Leap Year and ... -- AC

117. 492 - Pig-Latin

118. 11827 - Maximum GCD -- AC

119. 11278 - One-Handed Typist

120. 583 - Prime Factors -- AC

121. 12289 - One-Two-Three -- AC

122. 138 - Street Numbers

123. 12243 - Flowers Flourish from France -- AC

124. 10533 - Digit Primes -- AC

125. 11541 - Decoding -- AC

126. 12250 - Language Detection -- AC

127.π | 119 - Greedy Gift Givers -- AC

128. 11797 - Drutojan Express

129. 10994 - Simple Addition -- AC

130. 10190 - Divide, But Not Quite Conquer!

131. 10194 - Football (aka Soccer)

132. 10684 - The jackpot -- AC

133. 11233 - Deli Deli -- AC

134. 11371 - Number Theory for Newbies

135. 11057 - Exact Sum -- AC

136. 11192 - Group Reverse -- AC

137. 11933 - Splitting Numbers -- AC

138. 10260 - Soundex -- AC

139. 12403 - Save Setu -- AC

140. 11849 - CD -- AC

141. 10107 - What is the Median? -- AC

142. 10050 - Hartals

143. 11494 - Queen

144. 490 - Rotating Sentences

145. 10948 - The primary problem -- AC

146. 11470 - Square Sums -- AC

147. 444 - Encoder and Decoder -- AC

148. 11220 - Decoding the message. -- AC

149. 12157 - Tariff Plan -- AC

150. 11639 - Guard the Land

151. 10018 - Reverse and Add -- AC

152. 11661 - Burger Time? -- AC

153. 11723 - Numbering Roads

154. 11360 - Have Fun with Matrices

155. 880 - Cantor Fractions

156. 263 - Number Chains

157. 10161 - Ant on a Chessboard

158. 575 - Skew Binary -- AC

159. 11839 - Optical Reader

160. 10019 - Funny Encryption Method -- AC

161. 10200 - Prime Time

162. 10407 - Simple division

163. 10473 - Simple Base Conversion -- AC

164. 10922 - 2 the 9s -- AC

165. 11556 - Best Compression Ever

166. 113 - Power of Cryptography -- AC

167. 10340 - All in All -- AC

168. 264 - Count on Cantor

169. 11878 - Homework Checker

170. 11498 - Division of Nlogonia -- AC

171. 10242 - Fourth Point !!

172. 10427 - Naughty Sleepy Boys

173. 11437 - Triangle Fun

174. 355 - The Bases Are Loaded

175. 834 - Continued Fractions

176. 10699 - Count the factors

177. 11466 - Largest Prime Divisor

178. 10852 - Less Prime

179. 10450 - World Cup Noise

180. 10579 - Fibonacci Numbers

181. 495 - Fibonacci Freeze

182. 10013 - Super long sums

183. 10170 - The Hotel with Infinite Rooms

184. 10494 - If We Were a Child Again

185. 11161 - Help My Brother (II)

186. 10334 - Ray Through Glasses

187. 10220 - I Love Big Numbers !

188. 623 - 500!

189. 446 - Kibbles "n" Bits "n" Bits "n" Bits

190. 10137 - The Trip

191. 12459 - Bees' ancestors

192. 10905 - Children's Game

193. 10683 - The decadary watch

194. 11945 - Financial Management

195. 11909 - Soya Milk

196. 12114 - Bachelor Arithmetic

197. 11554 - Hapless Hedonism

198. 11401 - Triangle Counting

199. 568 - Just the Facts

200. 10394 - Twin Primes

201. 10324 - Zeros and Ones

202. 10862 - Connect the Cable Wires

203. 10297 - Beavergnaw

204. 10678 - The Grazing Cow

205. 10573 - Geometry Paradox

206. 1225 - Digit Counting

207. 10509 - R U Kidding Mr. Feynman?

208. 12468 - Zapping

209. 11946 - Code Number --- AC

210. 10338 - Mischievous Children -- AC

211. 324 - Factorial Frequencies -- AC

212. 12439 - February 29

213. 389 - Basically Speaking

214. 11858 - Frosh Week

215. 10810 - Ultra-QuickSort

216. 10104 - Euclid Problem

217. 10093 - An Easy Problem!

218. 10642 - Can You Solve It?

219. 406 - Prime Cuts

220. 12463 - Little Nephew

221. 11526 - H(n)

222. 948 - Fibonaccimal Base

223. 10992 - The Ghost of Programmers

224. 374 - Big Mod

225. 543 - Goldbach's Conjecture

226. 11385 - Da Vinci Code

227. 11559 - Event Planning

228. 11817 - Tunnelling the Earth

229. 10879 - Code Refactoring

230. 445 - Marvelous Mazes

231. 10656 - Maximum Sum (II)

232. 11917 - Do Your Own Homework

233. 12279 - Emoogle Balance

234. 11965 - Extra Spaces

235. 11579 - Triangle Trouble

236. 11495 - Bubbles and Buckets

237. 10931 - Parity

238. 343 - What Base Is This?

239. 11428 - Cubes

240. 10550 - Combination Lock

241. 11340 - Newspaper

242. 12195 - Jingle Composing

243. 10311 - Goldbach and Euler

244. 11462 - Age Sort

245. 686 - Goldbach's Conjecture (II)

246. 1230 - MODEX

247. 847 - A Multiplication Game

248. 10189 - Minesweeper

249. 11362 - Phone List

250. 11774 - Doom's Day

251. 386 - Perfect Cubes

252. 190 - Circle Through Three Points

253. 11830 - Contract Revision

254. 10420 - List of Conquests

255. 10530 - Guessing Game

256. 401 - Palindromes

257. 369 - Combinations

258. 530 - Binomial Showdown

259. 11223 - O: dah dah dah!

260. 12478 - Hardest Problem Ever (Easy)

261. 895 - Word Problem

262. 465 - Overflow

263. 10106 - Product

264. 10098 - Generating Fast

265. 10880 - Colin and Ryan

266. 484 - The Department of Redundancy Department

267. 11344 - The Huge One

268. 10252 - Common Permutation

269. 587 - There's treasure everywhere!

270. 11342 - Three-square

271. 10910 - Marks Distribution

272. 10295 - Hay Points

273. 11787 - Numeral Hieroglyphs

274. 455 - Periodic Strings

275. 10298 - Power Strings

276. 11448 - Who said crisis?

277. 10101 - Bangla Numbers

278. 11565 - Simple Equations

279. 661 - Blowing Fuses

280. 644 - Immediate Decodability

281. 621 - Secret Research

282. 10474 - Where is the Marble?

283. 11056 - Formula 1

284. 10191 - Longest Nap

285. 11804 - Argentina

286. 10487 - Closest Sums

287. 156 - Ananagrams

288.π | 11292 - Dragon of Loowater

289. 10878 - Decode the tape

290. 10005 - Packing polygons

291. 146 - ID Codes

292. 332 - Rational Numbers from Repeating Fractions

293. 10815 - Andy's First Dictionary

294. 10611 - The Playboy Chimp

295. 12461 - Airplane

296. 443 - Humble Numbers

297. 11489 - Integer Game

298. 11062 - Andy's Second Dictionary

299. 612 - DNA Sorting

300. 482 - Permutation Arrays

301. 10925 - Krakovia

302. 10814 - Simplifying Fractions

303. 10183 - How Many Fibs?

304. 11115 - Uncle Jack

305. 991 - Safe Salutations

306. 10198 - Counting

307. 10359 - Tiling

308. 10497 - Sweet Child Makes Trouble

309. 10763 - Foreign Exchange

310. 10282 - Babelfish

311. 417 - Word Index

312. 10650 - Determinate Prime

313. 11824 - A Minimum Land Price

314. 10226 - Hardwood Species

315. 739 - Soundex Indexing

316. 151 - Power Crisis

317. 10281 - Average Speed

318. 846 - Steps

319. 11780 - Miles 2 Km

320. 424 - Integer Inquiry

321. 408 - Uniform Generator

322. 412 - Pi

323. 11678 - Cards' Exchange

324. 11728 - Alternate Task

325. 640 - Self Numbers

326. 642 - Word Amalgamation

327. 352 - The Seasonal War

328. 11244 - Counting Stars

329. 572 - Oil Deposits

330. 784 - Maze Exploration

331. 10946 - You want what filled?

332. 10608 - Friends

333. 993 - Product of digits

334. 871 - Counting Cells in a Blob

335. 11953 - Battleships

336. 785 - Grid Colouring

337. 967 - Circular

338. 160 - Factors and Factorials

339. 10392 - Factoring Large Numbers

340. 10738 - Riemann vs Mertens

341. 10780 - Again Prime? No Time.

342. 10139 - Factovisors

343. 11408 - Count DePrimes

344. 11353 - A Different Kind of Sorting

345. 11226 - Reaching the fix-point.

346. 10424 - Love Calculator

347. 10523 - Very Easy !!!

348. 10976 - Fractions Again?!

349. 11727 - Cost Cutting

350. 10023 - Square root

351. 10622 - Perfect P-th Powers

352. 10519 - !! Really Strange !!

353. 636 - Squares (III)

354. 10336 - Rank the Languages

355. 333 - Recognizing Good ISBNs

356. 10551 - Basic Remains

357. 974 - Kaprekar Numbers

358. 1226 - Numerical surprises

359. 10464 - Big Big Real Numbers

360. 11321 - Sort! Sort!! and Sort!!!

361. 11475 - Extend to Palindrome

362. 673 - Parentheses Balance

363. 353 - Pesky Palindromes

364. 11687 - Digits

365. 10892 - LCM Cardinality

366. 11063 - B2-Sequence

367. 11369 - Shopaholic

368. 10820 - Send a Table

369. 10305 - Ordering Tasks

370. 11100 - The Trip, 2007

371. 10539 - Almost Prime Numbers

372. 441 - Lotto

373. 524 - Prime Ring Problem

374. 12210 - A Match Making Problem

375. 195 - Anagram

376. 729 - The Hamming Distance Problem

377. 10344 - 23 out of 5

378. 489 - Hangman Judge

379. 10193 - All You Need Is Love

380. 1210 - Sum of Consecutive Prime Numbers

381. 541 - Error Correction

382. 10299 - Relatives

383. 10325 - The Lottery

384. 12455 - Bars

385. 256 - Quirksome Squares

386. 11426 - GCD - Extreme (II)

387. 11424 - GCD - Extreme (I)

388. 12503 - Robot Instructions

389. 11247 - Income Tax

390. 11567 - Moliu Number Generator

391. 10776 - Determine The Combination

392. 628 - Passwords

393. 995 - Super Divisible Numbers

394. 574 - Sum It Up

395. 10168 - Summation of Four Primes

396. 11064 - Number Theory

397. 10179 - Irreducable Basic Fractions

398. 10990 - Another New Function

399. 12502 - Three Families

400. 474 - Heads / Tails Probability

401. 344 - Roman Digititis

402. 496 - Simply Subsets

403. 10583 - Ubiquitous Religions

404. 10685 - Nature

405. 459 - Graph Connectivity

406. 11151 - Longest Palindrome

407. 10192 - Vacation

408. 10405 - Longest Common Subsequence

409. 10066 - The Twin Towers

410. 531 - Compromise

411. 12511 - Virus

412. 231 - Testing the CATCHER

413. 11456 - Trainsorting

414. 481 - What Goes Up

415. 10534 - Wavio Sequence

416. 497 - Strategic Defense Initiative

417. 111 - History Grading

418. 10100 - Longest Match

419. 12406 - Help Dexter

420. 12517 - Digit Sum

421. 11960 - Divisor Game

422. 941 - Permutations

423. 347 - Run

424. 12394 - Peer Review

425. 11703 - sqrt log sin

426. 12416 - Excessive Space Remover

427. 12405 - Scarecrow

428. 763 - Fibinary Numbers

429. 884 - Factorial Factors

430. 914 - Jumping Champion

431. 10083 - Division

432. 11970 - Lucky Numbers

433. 409 - Excuses, Excuses!

434. 10954 - Add All

435. 11159 - Factors and Multiples

436. 10004 - Bicoloring

437. 485 - Pascal's Triangle of Death

438. 748 - Exponentiation

439. 11821 - High-Precision Number

440. 11776 - Oh Your Royal Greediness!

441. 11876 - N + NOD https://static.xx.fbcdn.net/images/emoji.php/v9/tff/1/18/1f44e.png?_nc_eui2=AeGA9fBPmZqLEgQH37-4-cBLRtdeJmdPrQYlTmoGBnQOpWynv6kxgJ4emvvIrNEZNLPYHJGTrumoFCJ7xUXkz42z4zFgHKEQf7HNbOG-uTi8nw(N)

442. 12049 - Just Prune The List

443. 12482 - Short Story Competition

444. 10176 - Ocean Deep! - Make it shallow!!

445. 10223 - How many nodes ?

446. 12465 - The Turanga Leela Problem

447. 12505 - Searching in sqrt(n)

448. 11068 - An Easy Task

449. 10489 - Boxes of Chocolates

450. 305 - Joseph

451. 674 - Coin Change

452. 357 - Let Me Count The Ways

453. 147 - Dollars

454. 10714 - Ants

455. 108 - Maximum Sum

456. 10827 - Maximum sum on a torus

457. 167 - The Sultan's Successors

458. 750 - 8 Queens Chess Problem

459. 11686 - Pick up sticks

460. 624 - CD

461. 216 - Getting in Line

462. 11110 - Equidivisions

463. 12085 - Mobile Casanova

464. 12527 - Different Digits

465. 12338 - Anti-Rhyme Pairs

466. 10935 - Throwing cards away I

467. 102 - Ecological Bin Packing

468. 12531 - Hours and Minutes

469. 10303 - How Many Trees?

470. 12019 - Doom's Day Algorithm

471. 10007 - Count the Trees

472. 12541 - Birthdates

473. 12208 - How Many Ones Needed?

474. 12542 - Prime Substring

475. 11609 - Teams

476. 11121 - Base -2

477. 10313 - Pay the Price

478. 477 - Points in Figures: Rectangles and Circles

479. 476 - Points in Figures: Rectangles

480. 12028 - A Gift from the Setter

481. 12554 - A Special "Happy Birthday" Song!!!

482. 12577 - Hajj-e-Akbar

483. 12578 - 10:6:2

484. 105 - The Skyline Problem

485. 10374 - Election

486. 12555 - Baby Me

487. 12136 - Schedule of a Married Man

488. 414 - Machined Surfaces

489. 594 - One Little, Two Little, Three Little Endians

490. 11137 - Ingenuous Cubrency

491. 12583 - Memory Overflow

492. 10126 - Zipf's Law

493. 10048 - Audiophobia

494. 544 - Heavy Cargo

495. 562 - Dividing coins

496. 10664 - Luggage

497. 10032 - Tug of War

498. 1246 - Find Terrorists

499. 10130 - SuperSale

500. 11503 - Virtual Friends

501. 12081 - Reduced ID Numbers

502. 10034 - Freckles

503. 12543 - Longest Word

504. 12060 - All Integer Average

505. 1213 - Sum of Different Primes

506. 599 - The Forrest for the Trees

507. 793 - Network Connections

508. 534 - Frogger

509. 523 - Minimum Transport Cost

510. 186 - Trip Routing

511. 12589 - Learning Vector

512. 10212 - The Last Non-zero Digit.

513. 725 - Division

514. 11889 - Benefit

515. 10791 - Minimum Sum LCM

516. 10010 - Where's Waldorf?

517. 439 - Knight Moves

518. 10397 - Connect the Campus

519. 10147 - Highways

520. 11631 - Dark roads

521. 11710 - Expensive subway

522. 908 - Re-connecting Computer Sites

523. 11733 - Airports

524. 10369 - Arctic Network

525. 383 - Shipping Routes

526. 762 - We Ship Cheap

527. 10009 - All Roads Lead Where?

528. 10006 - Carmichael Numbers

529. 516 - Prime Land

530. 11730 - Number Transformation

531. 11995 - I Can Guess the Data Structure!

532. 11988 - Broken Keyboard (a.k.a. Beiju Text)

533. 924 - Spreading The News

534. 820 - Internet Bandwidth

535. 11287 - Pseudoprime Numbers

536. 10140 - Prime Distance

537. 616 - Coconuts, Revisited

538. 11955 - Binomial Theorem

539. 11854 - Egypt

540. 11403 - Binary Multiplication

541. 10219 - Find the ways !

542. 10290 - {Sum+=i++} to Reach N

543. 12504 - Updating a Dictionary

544. 11351 - Last Man Standing

545. 11356 - Dates

546. 12425 - Best Friend

547. 514 - Rails

548. 11871 - New Land

549. 11094 - Continents

550. 10015 - Joseph's Cousin

551. 10229 - Modular Fibonacci

552. 12470 - Tribonacci

553. 11349 - Symmetric Matrix

554.π | 11235 - Frequent values

555. 10919 - Prerequisites?

556. 469 - Wetlands of Florida

557. 10986 - Sending email

558. 929 - Number Maze

559. 11518 - Dominos 2

560. 11729 - Commando War

561. 11384 - Help is needed for Dexter

562. 12592 - Slogan Learning of Princess

563. 12598 - Starting School

564. 11520 - Fill the Square

565. 760 - DNA Sequencing

566. 11039 - Building designing

567. 10566 - Crossed Ladders

568. 1368 - DNA Consensus String

569. 1346 - Songs

570. 1339 - Ancient Cipher

571. 11463 - Commandos

572. 10075 - Airlines

573. 10099 - The Tourist Guide

574. 10689 - Yet another Number Sequence

575. 12086 - Potentiometers

576. 11770 - Lighting Away

577. 11588 - Image Coding

578. 11504 - Dominos

579. 11086 - Composite Prime

580. 11015 - 05-2 Rendezvous

581. 11060 - Beverages

582. 11005 - Cheapest Base

583. 10700 - Camel trading

584. 10842 - Traffic Flow

585. 10515 - Powers Et Al.

586. 10074 - Take the Land

587. 836 - Largest Submatrix

588. 10600 - ACM Contest and Blackout

589. 10462 - Is There A Second Way Left?

590. 11309 - Counting Chaos

591. 12498 - Ant's Shopping Mall

592. 10042 - Smith Numbers

593. 962 - Taxicab Numbers

594. 11040 - Add bricks in the wall

595. 10930 - A-Sequence

596. 10375 - Choose and divide

597. 10926 - How Many Dependencies?

598. 10856 - Recover Factorial

599. 290 - Palindroms <---> smordnilaP

600. 12602 - Nice Licence Plates

601. 10188 - Automated Judge Script

602. 454 - Anagrams

603. 11621 - Small Factors

604. 12488 - Start Grid

605. 12293 - Box Game

606. 10061 - How many zero's and how many digits ?

607. 10706 - Number Sequence

608. 11222 - Only I did it!

609. 11926 - Multitasking

610. 10525 - New to Bangladesh?

611. 11634 - Generate random numbers

612. 11228 - Transportation system.

613. 11402 - Ahoy, Pirates!

614. 10943 - How do you add?

615. 12619 - Just Make A Wish

616. 10518 - How Many Calls?

617.π | 10341 - Solve It

618. 12611 - Beautiful Flag

619. 10484 - Divisibility of Factors

620. 10739 - String to Palindrome

621. 10014 - Simple calculations

622. 1121 - Subsequence

623. 166 - Making Change

624. 571 - Jugs

625. 10637 - Coprimes

626. 341 - Non-Stop Travel

627. 11084 - Anagram Division

628. 12030 - Help the Winners

629. 11690 - Money Matters

630. 12473 - Common Palindrome

631. 12444 - Bits and Pieces

632. 10125 - Sumsets

633. 11838 - Come and Go

634. 11078 - Open Credit System

635. 429 - Word Transformation

636. 314 - Robot

637. 10055 - Hashmat the Brave Warrior

638. 11089 - Fi-binary Number

639. 10909 - Lucky Number

640. 10759 - Dice Throwing

641. 10667 - Largest Block

642. 11747 - Heavy Cycle Edges

643. 11760 - Brother Arif, Please feed us!

644. 10308 - Roads in the North

645. 532 - Dungeon Master

646. 12160 - Unlock the Lock

647. 627 - The Net

648. 11352 - Crazy King

649. 11624 - Fire!

650. 619 - Numerically Speaking

651. 1174 - IP-TV

652. 12532 - Interval Product

653. 12168 - Cat vs. Dog

654. 11138 - Nuts and Bolts

655. 10349 - Antenna Placement

656. 10080 - Gopher II

657. 10928 - My Dear Neighbours

658. 11584 - Partitioning by Palindromes

659. 12097 - Pie

660. 10162 - Last Digit

661. 11386 - Triples

662. 615 - Is It A Tree?

663. 10508 - Word Morphing

664. 567 - Risk

665. 10959 - The Party, Part I

666. 11986 - Save from Radiation

667. 12034 - Race

668. 12039 - Goldbach's Cardinality

669. 11981 - Corrupted Friendship

670. 11977 - Story of Tomisu Ghost

671. 11979 - Hamming Base

672. 12036 - Stable Grid

673. 12620 - Fibonacci Sum

674. 10616 - Divisible Group Sums

675. 11413 - Fill the Containers

676. 10433 - Automorphic Numbers

677. 11646 - Athletics Track

678. 11790 - Murcia's Skyline

679. 10131 - Is Bigger Smarter?

680. 10227 - Forests

681. 10258 - Contest Scoreboard

682. 11952 - Arithmetic

683. 10653 - Bombs! NO they are Mines!!

684. 727 - Equation

685. 12599 - Black and White

686. 12596 - Recursive Texting

687. 10067 - Playing with Wheels

688. 10150 - Doublets

689. 12626 - I ❤ Pizza

690. 468 - Key to Success

691. 630 - Anagrams (II)

692. 782 - Contour Painting

693. 10393 - The One-Handed Typist

694. 10800 - Not That Kind of Graph

695. 536 - Tree Recovery

696. 10701 - Pre, in and post

697. 12347 - Binary Search Tree

698. 1160 - X-Plosives

699. 10677 - Base Equality

700. 11398 - The Base-1 Number System

701. 1197 - The Suspects

702. 548 - Tree

703. 12043 - Divisors

704. 10721 - Bar Codes

705. 11481 - Arrange the Numbers

706. 11982 - Fantasy Cricket

707. 10364 - Square

708. 11310 - Delivery Debacle

709. 10047 - The Monocycle

710. 11282 - Mixing Invitations

711. 11080 - Place the Guards

712. 10243 - Fire! Fire!! Fire!!!

713. 291 - The House Of Santa Claus

714. 315 - Network

715. 796 - Critical Links

716. 10199 - Tourist Guide

717. 11959 - Dice

718. 10453 - Make Palindrome

719. 11753 - Creating Palindrome

720. 11491 - Erasing and Winning

721. 11361 - Investigating Div-Sum Property

722. 12207 - That is Your Queue

723. 10036 - Divisibility

724. 10496 - Collecting Beepers

725. 10404 - Bachet's Game

726. 11892 - ENimEN

727. 10587 - Mayor's posters

728. 10165 - Stone Game

729. 10891 - Game of Sum

730. 11350 - Stern-Brocot Tree

731. 12442 - Forwarding Emails

732. 10938 - Flea circus

733. 10400 - Game Show Math

734. 11553 - Grid Game

735. 11762 - Race to 1

736. 10088 - Trees on My Island

737. 11029 - Leading and Trailing

738. 12257 - The Queue

739. 12717 - Fiasco

740. 11752 - The Super Powers

741. 10330 - Power Transmission

742. 11045 - My T-shirt suits me

743. 440 - Eeny Meeny Moo

744. 787 - Maximum Sub-sequence Product

745. 11038 - How Many O's?

746.π | 11512 - GATTACA

747. 12365 - Jupiter Atacks!

748. 1223 - Editor

749. 10635 - Prince and Princess

750. 10304 - Optimal Binary Search Tree

751. 10003 - Cutting Sticks

752. 1224 - Tile Code

753. 116 - Unidirectional TSP

754. 10465 - Homer Simpson

755. 957 - Popes

756. 821 - Page Hopping

757. 336 - A Node Too Far

758. 10092 - The Problem with the Problem Setter

759. 423 - MPI Maelstrom

760. 10806 - Dijkstra, Dijkstra.

761. 11327 - Enumerating Rational Numbers

762. 1113 - Multiple Morse Matches

763. 12506 - Shortest Names

764. 12526 - Cellphone Typing

765. 11525 - Permutation

766. 11523 - Recycling

767. 11174 - Stand in a Line

768. 11542 - Square

769. 11130 - Billiard bounces

770. 10182 - Bee Maja

771. 11485 - Extreme Discrete Summation

772. 10680 - LCM

773. 11480 - Jimmy's Balls

774. 11198 - Dancing Digits

775. 1479 - Graph and Queries

776. 11987 - Almost Union-Find

777. 11990 - ``Dynamic'' Inversion

778. 11191 - Square

779. 12050 - Palindrome Numbers

780. 12052 - Cyber cafe

781. 12055 - Strange Research

782. 1176 - A Benevolent Josephus

783. 1177 - A General Recurrence Relation

784. 1180 - Perfect Numbers

785. 1182 - Sequence Alignment

786. 1184 - Air Raid

787. 1185 - Big Number

788. 1189 - Find The Multiple

789. 501 - Black Box

790. 122 - Trees on the level

791. 12356 - Army Buddies

792. 1264 - Binary Search Tree

793. 10301 - Rings and Glue

794. 247 - Calling Circles

795. 10069 - Distinct Subsequences

796. 11654 - Arithmetic Subsequence

797. 872 - Ordering

798. 11354 - Bond

799. 10746 - Crime Wave - The Sequel

800. 11357 - Ensuring Truth

801. 1208 - Oreon

802. 1235 - Anti Brute Force Lock

803. 1216 - The Bug Sensor Problem

804. 1395 - Slim Span

805. 10459 - The Tree Root

806. 719 - Glass Beads

807. 1402 - Robotic Sort

808. 10278 - Fire Station

809. 12747 - Back to Edit Distance

810. 12749 - John's Tree

811. 12776 - Query for Divisor-free Numbers

812. 103 - Stacking Boxes

813. 12833 - Daily Potato

814. 12501 - Bulky process of bulk reduction

815. 12494 - Distinct Substring

816. 12064 - Count the Points Inside

817. 12715 - Watching the Kangaroo

818. 12090 - Counting Zeroes

819. 12091 - Multiplication

820. 12068 - Harmonic Mean

821. 12071 - Understanding Recursion

822. 12063 - Zeros and Ones

823. 12075 - Counting Triangles

824. 12120 - Photographic Tour

825. 12115 - Nested Squares

826. 12117 - ACM Puzzles

827. 12119 - The Bells are Ringing

828. 12118 - Inspector's Dilemma

829. 12280 - A Digital Satire of Digital Age

830. 12281 - Hyper Box

831. 12874 - Blanket

832. 12873 - The Programmers

833. 11002 - Towards Zero

834. 12363 - Hedge Mazes

835. 12798 - Handball

836. 12593 - Next Generation Macaw

837. 10718 - Bit Mask

838.π | 11450 - Wedding shopping

839. 10912 - Simple Minded Hashing

840. 11488 - Hyper Prefix Sets

841. 12467 - Secret Word

842. 12464 - Professor Lazy, Ph.D.

843. 10158 - War

844. 10128 - Queue

845. 297 - Quadtrees

846. 11136 - Hoax or what

847. 1112 - Mice and Maze

848. 10129 - Play on Words

849. 10285 - Longest Run on a Snowboard

850. 12469 - Stones

851. 10446 - The Marriage Interview https://static.xx.fbcdn.net/images/emoji.php/v9/tce/1/18/1f642.png?_nc_eui2=AeEs9RdXe2EJzj85SivpGltle2tItA5g8R3RF8FBpTdJivuhwmGmeVJ3oq0Rjy0bVpi22vYoQ8cNgk8O6_QWBlsxHm44mdUxo543q9WoOoaNyQ:-)

852. 10049 - Self-describing Sequence

853. 12101 - Prime Path

854. 11536 - Smallest Sub-Array

855. 610 - Street Directions

856. 10056 - What is the Probability ?

857. 200 - Rare Order

858. 1314 - Hidden Password

859. 10234 - Frequent Substrings

860. 11107 - Life Forms

861. 12440 - Save the Trees

862. 11311 - Exclusively Edible

863. 12033 - Game of CS

864. 1561 - Cycle Game

865. 12057 - Prefix Codes

866. 10688 - The Poor Giant

867. 714 - Copying Books

868. 11262 - Weird Fence

869. 679 - Dropping Balls

870. 10077 - The Stern-Brocot Number System

871. 12424 - Answering Queries on a Tree

872. 350 - Pseudo-Random Numbers

873. 10000 - Longest Paths

874. 11888 - Abnormal 89's

875. 12604 - Caesar Cipher

876. 11019 - Matrix Matcher

877. 11082 - Matrix Decompressing

878. 12361 - File Retrieval

879. 12065 - Permutation Primes

880. 12087 - Collecting Marbles

881. 12375 - Truchet Tiling

882. 12072 - Matrissor

883. 12092 - Paint the Roads

884. 12141 - Line Chart

885. 12587 - Reduce the Maintenance Cost

886. 12123 - Magnetic Train Tracks

887. 12369 - Cards

888. 12436 - Rip Van Winkle's Code

889. 191 - Intersection

890. 378 - Intersecting Lines

891. 478 - Points in Figures: Rectangles, Circles, Triangles

892. 10725 - Triangular Square

893. 10709 - Intersection is Not that Easy

894. 10522 - Height to Area

895. 10283 - The Kissing Circles

896. 10679 - I Love Strings!!

897. 1227 - The longest constant gene

898. 1254 - Top 10

899. 736 - Lost in Space

900. 557 - Burger

901. 10673 - Play with Floor and Ceil

902. 12716 - GCD XOR

903. 1676 - GRE Words Revenge

904. 1709 - Amalgamated Artichokes

905. 1728 - Toll Management IV

906. 1730 - Sum of MSLCM

907. 1076 - Password Suspects

908. 1069 - Always an integer

909. 1084 - Deer-Proof Fence

910. 1726 - Automatic Cheater Detection

911. 11590 - Prefix Lookup

912. 1727 - Counting Weekend Days

913. 1729 - Owllen

914. 12995 - Farey Sequence

915. 12998 - Tree Weights

916. 12897 - Decoding Baby Boos

917. 12898 - And Or

918. 12911 - Subset sum

919. 12916 - Perfect Cyclic String

920. 13003 - Toll Management (III)

921. 13038 - Directed Forest

922. 13042 - Ikroch

923. 13004 - At most twice

924. 13005 - Blood groups

925. 13026 - Search the Khoj

926. 13025 - Back to the Past

927. 12507 - Kingdoms

928. 12062 - Reverse Assignment

929. 12066 - The Fairy Tale of ICPC

930. 12538 - Version Controlled IDE

931. 10702 - Travelling Salesman

932. 1103 - Ancient Messages

933. 1105 - Coffee Central

934. 1111 - Trash Removal

935. 11280 - Flying to Fredericton

936. 12878 - Flowery Trails

937. 12879 - Golf Bot

938. 12880 - Book Club

939. 12881 - Ricochet Robots

940. 12886 - The Big Painting

941. 13015 - Promotions

942. 13018 - Dice Cup

943. 13021 - Game of Cards

944. 13022 - Sheldon Numbers

945. 125 - Numbering Paths

946. 11991 - Easy Problem from Rujia Liu?

947. 13109 - Elephants

948. 13104 - Tobby and Prime Sum

949. 13101 - Tobby on Tree

950. 13103 - Tobby and Seven

951. 13106 - Vogons

952. 13107 - Royale With Cheese

953. 13095 - Tobby and Query

954. 13094 - Tobby Bones

955. 13092 - Fold the String

956. 11407 - Squares

957. 12572 - RMQ Overkill

958. 12299 - RMQ with Shifts

959. 12769 - Kool Konstructions

960. 12003 - Array Transformer

961. 12837 - Hasmot Ali Professor

962. 12802 - Gift From the Gods

963. 12437 - Kisu Pari Na 2

964. 12410 - Disable the Wand

965. 12393 - Non-negative Partial Sums

966. 12070 - Invite Your Friends

967. 11997 - K Smallest Sums

968. 11904 - One Unit Machine

969. 11902 - Dominator

970. 12345 - Dynamic len(set(a[L:R]))

971. 11506 - Angry Programmer

972. 11576 - Scrolling Sign

973. 11085 - Back to the 8-Queens

974. 11903 - e-Friends

975. 11297 - Census

976. 11476 - Factorizing Larget Integers

977. 11992 - Fast Matrix Operations

978. 13034 - Solve Everything https://static.xx.fbcdn.net/images/emoji.php/v9/tce/1/18/1f642.png?_nc_eui2=AeEs9RdXe2EJzj85SivpGltle2tItA5g8R3RF8FBpTdJivuhwmGmeVJ3oq0Rjy0bVpi22vYoQ8cNgk8O6_QWBlsxHm44mdUxo543q9WoOoaNyQ:-)

979. 13035 - Another Combination Problem

980. 13036 - Birthday Gift to SJ - 2

981. 13037 - Chocolate

982. 13047 - Arrows

983. 13048 - Burger Stand

984. 13050 - Discovering Paths

985. 13055 - Inception

986. 13072 - Duckindromes

987. 13071 - Double decker

988. 13083 - Yet another GCDSUM

989. 13090 - Base of MJ

990. 13093 - Acronyms

991. 13091 - No Ball

992. 13017 - Canvas Painting

993. 13024 - Saint John Festival

994. 12996 - Ultimate Mango Challenge

995. 12930 - Bigger or Smaller

996. 13011 - Height map

997. 12004 - Bubble Sort

998. 12005 - Find Solutions

999. 12027 - Very Big Perfect Squares

1000. 11994 - Happy Painting!

1001. 13118 - Binary Land

1002. 13122 - Funny Cardiologist

1003. 13123 - Christmas Lights

1004. 13126 - Wildcards

1005. 13127 - Bank Robbery

1006. 13117 - ACIS, A Contagious vIruS

1007. 13129 - Subsets

1008. 13130 - Cacho

1009. 13131 - Divisors

1010. 13132 - Laser Mirrors

1011. 13133 - ConcatFibos

1012. 13134 - Generate, Sort and Search

1013. 13135 - Homework

1014. 13137 - Progressions

1015. 13140 - Squares, Lists and Digital Sums

1016. 10025 - The ? 1 ? 2 ? ... ? n = k problem

1017. 10026 - Shoemaker's Problem

1018. 12992 - Huatuo's Medicine

1019. 12981 - Secret Master Plan

1020. 12965 - Angry Bids

1021. 12073 - Altitude Triangle

1022. 12074 - The Ultimate Bamboo Eater

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Codechef tutorials: [http://www.codechef.com/wiki/tutorials](http://www.codechef.com/wiki/tutorials?fbclid=IwAR1FEXagahcbv0Fdn3oIVcA5kCBC-BPE0s9tiKpuKEOzDgclGFtsAZ8WIAs)

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104 Number theory problems by titu Andreescu, Dorin Andrica, Zuming Feng

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[Codeforces] [http://www.codeforces.com/](https://l.facebook.com/l.php?u=http%3A%2F%2Fwww.codeforces.com%2F%3Ffbclid%3DIwAR2tyuAqbmXXrSQYT1oNEdXonGIPUFxVO43LMelHLPIYuSpbWpUePcLZ5oM&h=AT24A_qsOwDrg1JWAoDBP9fP7Z_CrQj74WlEgDUVokZJch_TqOjaSMG2EC2e4h7iWM2LpjK9DcZxyP8GC0eVF6BDexcS6ce8NpMhMLTCEslqv1E-HjqRq5b7VRDiTfSnrep15Q)

[Codechef] [http://www.codechef.com/](https://l.facebook.com/l.php?u=http%3A%2F%2Fwww.codechef.com%2F%3Ffbclid%3DIwAR3PZrh3k3vS8hjf_W4Esax624rgf6KkIMQAqLWvi90lyN2RUGSy5fuqHpY&h=AT3_GfLwdlGuPZ2ChSAxU8bf4KBGKkHnskOY1mGEmQQzOoBaGlheD5oU09Y-QsKsVeOo0J6Yc5E4H2bRdlv_2UUMFuazW-Yi-xmLaWpru9Gd8XVFHknggZSEtiFDeIdRd3YTFw)

[Usaco] [http://ace.delos.com/usacogate](https://l.facebook.com/l.php?u=http%3A%2F%2Face.delos.com%2Fusacogate%3Ffbclid%3DIwAR3V6mlgL0zpMmAu51HimxWti1IOCmwcAI099p_KdUFrBlefWsQLMshB1Wk&h=AT39THj8Sv7nBktglZO3gVqCSVzWun_EPJrnSPcVvJhfkXg4P06LDbEBnCTKsE4RX31lr69uqOOj42irHvxBBPcuBd6prtJ6cDImzuzH8qPKGEbzFVjxz16hj8md0JjX_0HNmhGoVuTYzo6cqoQ)

Topcoder r codeforces a beginners der akhon na contest koratai better akbare number theory r graph theory shesh kore regular join korata better. But go and check those problems.....

..... goodluck

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**Number Theory problems**

By [Jubayer Al Farabi](https://www.facebook.com/xxburning.s0ulxx?eid=ARAQbFW5PtkZu4bJNCgBJdDxjRMtpj2wehA485xojdJTm9HexNH_qEr2W4AwjcFfWcQKVlEkmOpWjhZS) on [Tuesday, September 24, 2013 at 11:33 PM](https://www.facebook.com/notes/eluminatis-of-lu/number-theory-problems/517728584981900/)

SET 1:

UVa:

Primes and divisors: 160, 294, 543, 583, 406, 686, 884, 914, 10042, 10235, 10392, 10394, 10533, 10539, 10699, 10738, 10780, 10789, 10852, 11415, 11466

Euler's Totient Function: 10299, 11064

Trailing zeros and counting digits: 10061

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**Adhoc Simulation problems**

By [Jubayer Al Farabi](https://www.facebook.com/xxburning.s0ulxx?eid=ARAWwawqpiJ5eNfv0cNYXQt0hNk4QrhgM7leFAiOwmexBp2EMyDbEuOHSysHMQYmY3drYhcN5N9oyEg8) on [Tuesday, August 27, 2013 at 10:17 PM](https://www.facebook.com/notes/eluminatis-of-lu/adhoc-simulation-problems/503449463076479/)

SET 1:

TJU: 1090, 1112 (string add), 1211 (decode), 1326, 1350 (string add), 1401, 1856, 2501, 3070(encryption), 3152

LightOJ: 1338, 1113, 1212

UVa: 11734, 11541, 401, 353, 11530, 11233, 11743, 11716, 11713, 11362, 263, 10010, 10279, 445

SET 2:

UVa: 10018, 706 ,412 ,11074 ,11482 ,10189 ,11142 ,10550, 10196, 10363, 10894, 486

Bignum: 424, 11448(Subtraction), 623(Multiplication), 324, 748, 713, 10013, 10083(division)

UValive: 4335, 4392, 5870

TJU: 1909

SET 3:

UVa: 852, 131, 706, 142, 338

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Simple Modular Arithmetic

[Jubayer Al Farabi](https://www.facebook.com/xxburning.s0ulxx?eid=ARCceU9g-ev-fuIHEJYzRpFAYgezDUiX53xJD_mnWrgmrw4xz-NcYMt8CYD6Ayt15uLhcCMjqqbkYO4F)·[Monday, July 29, 2013](https://www.facebook.com/notes/eluminatis-of-lu/simple-modular-arithmetic/489518737802885/)

Amra jani modulus hocche Bhagshesh. ACM problem solving ar shurute kichu kichu jinish jene rakha uchit. Tai ata likhchi.

Ok tahole amra 1st a aktu dekhenei Bhagsheshta ki jinis? Abong ata jonmacche kottheke?? Tarpor modular arithmetic a jabo..

Dhori akti number A abong arekti B. Ami jante chacchi A ke B dara bhag korle bhagshesh ki thakbe abong atake kibhabe ber korbo. Shohoj ata amara school a shikhechi……

A ar shobcheye kacher CHOTO ba SHOMAN B ar multiple theke A ar difference tai hocche Bhagshesh….. akhon B ar multiple ki?  Hmm… jeshob numberke B dara purnoshongkhay bhag korajay shegulo hocche B ar multiple.

Purotar Example dekhi cholo… A=11, B=2

Tahole A ar shobcheye kacher choto ba shoman 2 ar multiple hocche 10. Sheta 11 theke difference 1. So bhagshesh 1.

Akhon A numberta Jodi negative hoy tahole ki hobe ….A= -11, B=2;

Shekhetreo same amake CHOTO ba SHOMAN multiple ber korte hobe -11 ar CHOTO B ar multiple hocche -12. Jeta theke A ar difference  1.

Bas akhon amra prostut modular arithmetic ar jonno……

Akhon dekhbo +.-,\*,/ ar khetre modulaus kibhabe kaj kore…

For Addition:

                (A+B) % X = (A%X + B%X) % X = (A%X+ B)%X = (A+B%X)%X arokom….

                (4+6)%3 = 10%3 = 1 = (4%3+6%3) % 3 = (1+0)% 3 =1;

For Subtraction:

Atar khetre  amake nishchit korte hobe jate kono negative value na ashe tai jake dara bhag korchi tar multiple ba take add kore then abar mod korbo:

               (((A-B)% X) + X) % X = (((A%X – B%X)%X )+X)%X

               ((4-6) % 3 +3) %3 = ((-2)%3+3 )%3 = ((-2)+3) %3 = 1%3 =1;

Arokom korte hocche karon normally Microsoft ba linux a by default ora 0 ke mul dhore Mod kore

For Multiplication:

          Multiplication r addition same,

               (A\*B) % X = (A%X \* B%X) % X

For Division:

          Inverse Modular arithmetic…atake onek bhabe solve kora jay… akta common approach hocche fermat’s little theorem diye. agulo ami workshop a explain korbo. Wait for it https://static.xx.fbcdn.net/images/emoji.php/v9/tce/1/18/1f642.png?_nc_eui2=AeEs9RdXe2EJzj85SivpGltle2tItA5g8R3RF8FBpTdJivuhwmGmeVJ3oq0Rjy0bVpi22vYoQ8cNgk8O6_QWBlsxHm44mdUxo543q9WoOoaNyQ:)

Akhon Problem solve kora jak…

Dhori Akti number 12345…. Atake r kibhabe likha jay??

12345

= 1\*10000 + 2345

= 1\*10000 + 2\*1000 + 3\*100 + 4\*10 + 5

= 1\*10^4 + 2\*10^3 + 3\*10^2 + 4\*10 + 5         [Ata akta polynomial sequence ]

= (1\* 10^3 + 2 \* 10^2 + 3 \* 10 + 4) \* 10 + 5

= ((1\* 10^2 + 2 \* 10 + 3) \* 10 + 4) \* 10 + 5

= (((1\* 10 + 2) \* 10 + 3) \* 10 + 4) \* 10 + 5       [ Horner method complete]

Horner method hocche akti polynomial sequence ke linear polynomial sequence a niye asha jeta amra dekhlam akhon kibhabe….

Great akhon dhori akta number 1000 digit ar… take amra obviously string hishebe input nibo.. akhon Jodi bola hoy ake kibhabe mod korbo? Simple…..using horner method:

char str[1001];

scanf("%s",str);

int ans=0, Mod = 10;

for(int i=0;i<strlen(str);i++)

{

          ans=( (ans\* 10 % Mod) % Mod + (str[i]-'0'))% Mod;

}

printf("%d\n",ans);

Akhon amra dekhlam kibhabe BigInt Mod korte hoy….

BigInt Mod related problem gulo hocche:

UVA: 10929 – You Can Say 11

TJU: 2923 -  Kangaroo

HDU: 1021 – Fibonacci Again http://acm.hdu.edu.cn/showproblem.php?pid=1021

LightOJ: 1214 - Large Division

UVA: 498 -- Polly the Polynomial (Only horner method)

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**C++ STL**

By [Jubayer Al Farabi](https://www.facebook.com/xxburning.s0ulxx?eid=ARDihEFN7ajsqc8imPhZfiDoRiZ-SiuNn3fDO9DgS7sH6u_dm25t-B8i3lsLg8AM32BHgYuxCYAndbnn) on [Saturday, June 29, 2013 at 11:36 PM](https://www.facebook.com/notes/eluminatis-of-lu/c-stl/476246869130072/)

I'm going to write about c++ STL and its various headers and functions that we need or use in problem solving.....Why use STL? To code fast. But we should know the properties of every function or how it is created.

First thing is first let’s know what is STL!

C++ STL or standard template library, these are some built in classes with functions of different twists and tricks or ability you can say.

Classes and Structures are same thing but in structure everything by default in public and in class it’s in private...that's the only difference.

**STL:**

Here is the list of STL containers: [http://www.cplusplus.com/reference/stl/](http://www.cplusplus.com/reference/stl/?fbclid=IwAR1MmfVDFP9WpooEwu8CNqEIz1oka14EAENsprS8tGAz1GL5EvNyurISt0Y)

We don’t need to learn all of them...let’s see which are the most important

From sequence container: <vector>.

From container adapters all three of them important in graph algorithms specially.

From associative containers learning <map> is enough!

well there is another thing which is called pair...its from <utility>

[http://www.cplusplus.com/reference/utility/pair/](http://www.cplusplus.com/reference/utility/pair/?fbclid=IwAR2A_wHh-jDxlGHBssxL5zjpy-ZbxwYclQ9HIhLjpjbG1hz38-rR55cYAt8)

pair ar constructor r make\_pair() janlei cholbe

**<vector>:**

Now from vector no need to learn all the function

constructor,size(), resize(), empty(), push\_back(), pop\_back(), insert(), erase(), clear(), begin(), end()

agulo janlei hobe....shob example atate ache

[http://www.cplusplus.com/reference/vector/vector/](http://www.cplusplus.com/reference/vector/vector/?fbclid=IwAR2fkey8i0V1ArX1B2JZWmGR9HwqzocDvRimpPSViOLmsuoi4BJS_jrVI1E)

There will be a tutorial on <map> soon and i have already given the tutorial on <string>

**<algorithm>:**

Arpor akta header ache jeta create kora hoyeche STL abong array'r range niye bibhinno karukaj korar jonno jeta hocche <algorithm>

ataro shob function janar dorkar nei important gulo hocche:

reverse(), unique(), sort() , merge(), binary\_search(), lower\_bound(), upper\_bound(), equal\_range(), next\_permutation(), prev\_permutation()

[http://www.cplusplus.com/reference/algorithm/](https://l.facebook.com/l.php?u=http%3A%2F%2Fwww.cplusplus.com%2Freference%2Falgorithm%2F%3Ffbclid%3DIwAR3Vg7qeh6WklMZWXIri55epUXg5fa6DUseWi0au08rgTqcCl5ONcTKuYMY&h=AT1AibEMYZDfnYAAcA7fmEzC8q4OpFQxvz3xI2DIeBN5FLELmwbUP_u9apAPXc_-CCc9KcljxoBU1NnJR8C4Q_BiRNBGiEDKkAuAZzy9MXNSPOc4MU5O0EOt-39kQ_cmFobVgw)

**<sstreem>:**

arekta interesting jinish ache jeta hocche stringstream atar header hocche <sstream> ....ar example

[http://www.cplusplus.com/reference/sstream/stringstream/stringstream/](https://l.facebook.com/l.php?u=http%3A%2F%2Fwww.cplusplus.com%2Freference%2Fsstream%2Fstringstream%2Fstringstream%2F%3Ffbclid%3DIwAR1uuTZFrx-Kck8av9APmxg6cvLH6cywpfWOHWm00-h5-3QhX02FTXET5qo&h=AT3eepQobACUZj0SrBO3Omc_qt1J38jE-xsTFXiupci_KMbN0jMz-eJXwnRRiX2NtQqMXwcgwZBE4s4Hupw57Q-PgFINyoohUwZGtdMICc5KzTGRKqtDzC_Qu8eYoqTEtcxyow)

**Iterator:**

Amader onek khetrei pointer ar proyojon pore... r c++ a STL ar jonno special pointer create kora hoyeche atar naam iterator. Atar onek bebohar ache jeta aste aste stl use kore kore jana jabe.

That's all.... Have fun coding.. :)

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**DP problem Lists**

By [Jubayer Al Farabi](https://www.facebook.com/xxburning.s0ulxx?eid=ARCV7HFmvjnM3blfTIj7d2JSnDQ44IVgLUYxlpTPWpPKKnwKZsAfu2idSOVsl0WhUPSz7SP-w1OIs2aQ) on [Thursday, April 4, 2013 at 10:15 PM](https://www.facebook.com/notes/eluminatis-of-lu/dp-problem-lists/438119376276155/)

**Edit Distance:**LOJ:  
1004 Monkey Banana Problem  
1017 Brush (III)  
1047 Neighbor House  
1217 Neighbor House (II)  
1169 Monkeys on Twin Tower  
1071 Baker Vai  
1051 Good or Bad **Knapsack, Coinchange, dice:**LOJ:  
1064 Throwing Dice  
1125 Divisible Group Sums  
1231 Coin Change (I)  
1232 Coin Change (II)  
1233 Coin Change (III)  
1145 Dice (I)  
1193 Dice (II) **LIS:**LOJ:  
1421 Wavio Sequence (O(nlogn))  
 **String matching, lcs, subsequence, substring:**LOJ:  
1013 Love Calculator  
1025 The Specials Menu  
1033 Generating Palindromes  
1044 Palindrome Partitioning  
1110 An Easy LCS  
1159 Batman  
1157 LCS Revisited (moderate)  
1420 Subsequences forming Strings (tough)  
1416 Superb Sequence (tough)  
 **BitMasking:**LOJ:  
1011 Marriage Ceremonies  
1119 Pimp My Ride  
1057 Collecting Gold  
1037 Agent 47  
**Digit DP:**LOJ:  
1122 Digit Count  
1068 Investigation  
1140 How Many Zeroes?

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