Python Programming Language

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Python Basics and Functions Practice

We will discuss in this lecture the following topics

1- Input/Output	[75 problems

2- Basic Operator [9	O problems
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3- Condition	[35 problems





Section 1: Input/Output

Section 2: Basic Operator

Section 3: Condition

Section 4: Loop

Section 5: Function



HackerRank - Introduction







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- [03] https://www.hackerrank.com/challenges/fp-hello-world-n-times/problem
- [04] https://www.hackerrank.com/challenges/fp-list-replication/problem
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HackerEarth - Input/Output





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✓ Section 1: Input/Output

Section 2: Basic Operator

Section 3: Condition

Section 4: Loop

Section 5: Function



Codeforces - Basic Operator





[01]	CF-Round 340:	http://codeforces.com/problemset/problem/617/A
[02]	CF-Round 304:	http://codeforces.com/problemset/problem/546/A
[03]	CF-Round 395:	http://codeforces.com/problemset/problem/764/A
[04]	CF-Round 107:	http://codeforces.com/problemset/problem/151/A
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[08]	CF-Round 125:	http://codeforces.com/problemset/problem/199/A
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[10]	CF-Round 123:	http://codeforces.com/problemset/problem/195/A
[11]	CF-Round 138:	http://codeforces.com/problemset/problem/224/A
[12]	CF-Round 277:	http://codeforces.com/problemset/problem/486/A
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HackerEarth - Operators





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- [68] https://www.hackerearth.com/practice/basic-programming/bit-manipulation/basics-of-bit-manipulation/practice-problems/algorithm/substring-queries/
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✓ Section 1: Input/Output

✓ Section 2: Basic Operator

Section 3: Condition

Section 4: Loop

Section 5: Function



Codeforces - Condition





[01]	CF-Round 322:	http://codeforces.com/problemset/problem/581/A
[02]	CF-Round 388:	http://codeforces.com/problemset/problem/749/A
[03]	CF-Round 172:	http://codeforces.com/problemset/problem/281/A
[04]	CF-Round 348:	http://codeforces.com/problemset/problem/669/A
[05]	CF-Round 101:	http://codeforces.com/problemset/problem/141/A
[06]	CF-Round 186:	http://codeforces.com/problemset/problem/313/A
[07]	CF-Round 389:	http://codeforces.com/problemset/problem/752/A
[80]	CF-Round 393:	http://codeforces.com/problemset/problem/760/A
[09]	CF-Round 114:	http://codeforces.com/problemset/problem/168/A
[10]	CF-Round 188:	http://codeforces.com/problemset/problem/318/A
[11]	CF-Round 258:	http://codeforces.com/problemset/problem/451/A
[12]	CF-Round 285:	http://codeforces.com/problemset/problem/501/A
[13]	CF-Round 337:	http://codeforces.com/problemset/problem/610/A
[14]	CF-Round 362:	http://codeforces.com/problemset/problem/697/A
[15]	CF-Round 396:	http://codeforces.com/problemset/problem/766/A
[16]	CF-Round 195:	http://codeforces.com/problemset/problem/336/A
[17]	CF-Round 206:	http://codeforces.com/problemset/problem/355/A

Codeforces - Condition





[18]	CF-Round 274:	http://codeforces.com/problemset/problem/479/A
[19]	CF-Round 292:	http://codeforces.com/problemset/problem/515/A
[20]	CF-Round 324:	http://codeforces.com/problemset/problem/584/A
[21]	CF-Round 346:	http://codeforces.com/problemset/problem/659/A
[22]	CF-Round 349:	http://codeforces.com/problemset/problem/667/A
[23]	CF-Round 353:	http://codeforces.com/problemset/problem/675/A
[24]	CF-Round 371:	http://codeforces.com/problemset/problem/714/A
[25]	CF-Round 394:	http://codeforces.com/problemset/problem/761/A
[26]	CF-Round 217:	http://codeforces.com/problemset/problem/370/A
[27]	CF-Round 273:	http://codeforces.com/problemset/problem/478/A
[28]	CF-Round 120:	http://codeforces.com/problemset/problem/190/A
[29]	CF-Round 261:	http://codeforces.com/problemset/problem/459/A
[30]	CF-Round 140:	http://codeforces.com/problemset/problem/227/A
[31]	CF-Round 171:	http://codeforces.com/problemset/problem/279/A
[32]	CF-Round 124:	http://codeforces.com/problemset/problem/197/A
[33]	CF-Round 100:	http://codeforces.com/problemset/problem/140/A
[34]	CF-Round 342:	http://codeforces.com/problemset/problem/625/A



- ✓ Section 1: Input/Output
- ✓ Section 2: Basic Operator
- ✓ Section 3: Condition

Section 4: Loop

Section 5: Function







[01]	CF-Round 366:	http://codeforces.com/problemset/problem/705/A
[02]	CF-Round 200:	http://codeforces.com/problemset/problem/344/A
[03]	CF-Round 365:	http://codeforces.com/problemset/problem/703/A
[04]	CF-Round 143:	http://codeforces.com/problemset/problem/231/A
[05]	CF-Round 144:	http://codeforces.com/problemset/problem/233/A
[06]	CF-Round 210:	http://codeforces.com/problemset/problem/361/A
[07]	CF-Round 222:	http://codeforces.com/problemset/problem/378/A
[80]	CF-Round 259:	http://codeforces.com/problemset/problem/454/A
[09]	CF-Round 267:	http://codeforces.com/problemset/problem/467/A
[10]	CF-Round 352:	http://codeforces.com/problemset/problem/672/A
[11]	CF-Round 357:	http://codeforces.com/problemset/problem/681/A
[12]	CF-Round 359:	http://codeforces.com/problemset/problem/686/A
[13]	CF-Round 377:	http://codeforces.com/problemset/problem/732/A
[14]	CF-Round 386:	http://codeforces.com/problemset/problem/746/A
[15]	CF-Round 105:	http://codeforces.com/problemset/problem/148/A
[16]	CF-Round 152:	http://codeforces.com/problemset/problem/248/A
[17]	CF-Round 166:	http://codeforces.com/problemset/problem/271/A





[18]	CF-Round 247:	http://codeforces.com/problemset/problem/431/A
[19]	CF-Round 270:	http://codeforces.com/problemset/problem/472/A
[20]	CF-Round 280:	http://codeforces.com/problemset/problem/492/A
[21]	CF-Round 400:	http://codeforces.com/problemset/problem/776/A
[22]	CF-Round 122:	http://codeforces.com/problemset/problem/194/A
[23]	CF-Round 131:	http://codeforces.com/problemset/problem/214/A
[24]	CF-Round 136:	http://codeforces.com/problemset/problem/221/A
[25]	CF-Round 151:	http://codeforces.com/problemset/problem/246/A
[26]	CF-Round 169:	http://codeforces.com/problemset/problem/276/A
[27]	CF-Round 194:	http://codeforces.com/problemset/problem/334/A
[28]	CF-Round 262:	http://codeforces.com/problemset/problem/460/A
[29]	CF-Round 320:	http://codeforces.com/problemset/problem/579/A
[30]	CF-Round 326:	http://codeforces.com/problemset/problem/588/A
[31]	CF-Round 383:	http://codeforces.com/problemset/problem/742/A
[32]	CF-Round 387:	http://codeforces.com/problemset/problem/747/A
[33]	CF-Round 175:	http://codeforces.com/problemset/problem/285/A
[34]	CF-Round 177:	http://codeforces.com/problemset/problem/289/A





[35]	CF-Round 190:	http://codeforces.com/problemset/problem/322/A
[36]	CF-Round 214:	http://codeforces.com/problemset/problem/366/A
[37]	CF-Round 272:	http://codeforces.com/problemset/problem/476/A
[38]	CF-Round 275:	http://codeforces.com/problemset/problem/483/A
[39]	CF-Round 296:	http://codeforces.com/problemset/problem/527/A
[40]	CF-Round 298:	http://codeforces.com/problemset/problem/534/A
[41]	CF-Round 308:	http://codeforces.com/problemset/problem/552/A
[42]	CF-Round 319:	http://codeforces.com/problemset/problem/577/A
[43]	CF-Round 345:	http://codeforces.com/problemset/problem/651/A
[44]	CF-Round 367:	http://codeforces.com/problemset/problem/706/A
[45]	CF-Round 102:	http://codeforces.com/problemset/problem/143/A
[46]	CF-Round 128:	http://codeforces.com/problemset/problem/203/A
[47]	CF-Round 139:	http://codeforces.com/problemset/problem/225/A
[48]	CF-Round 148:	http://codeforces.com/problemset/problem/239/A
[49]	CF-Round 165:	http://codeforces.com/problemset/problem/270/A
[50]	CF-Round 236:	http://codeforces.com/problemset/problem/402/A
[51]	CF-Round 358:	http://codeforces.com/problemset/problem/682/A





[52]	CF-Round 119:	http://codeforces.com/problemset/problem/189/A
[53]	CF-Round 121:	http://codeforces.com/problemset/problem/192/A
[54]	CF-Round 183:	http://codeforces.com/problemset/problem/304/A
[55]	CF-Round 381:	http://codeforces.com/problemset/problem/740/A
[56]	CF-Round 115:	http://codeforces.com/problemset/problem/175/A
[57]	CF-Round 158:	http://codeforces.com/problemset/problem/260/A
[58]	CF-Round 174:	http://codeforces.com/problemset/problem/284/A
[59]	CF-Round 276:	http://codeforces.com/problemset/problem/485/A
[60]	CF-Round 281:	http://codeforces.com/problemset/problem/493/A
[61]	CF-Round 315:	http://codeforces.com/problemset/problem/569/A
[62]	CF-Round 339:	http://codeforces.com/problemset/problem/614/A
[63]	CF-Round 220:	http://codeforces.com/problemset/problem/374/A



- ✓ Section 1: Input/Output
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Section 5: Function



HackerRank - Functional Structures







[02] https://www.hackerrank.com/challenges/swap-nodes/problem

[03] https://www.hackerrank.com/challenges/valid-bst/problem

[04] https://www.hackerrank.com/challenges/prison-transport/problem

[05] https://www.hackerrank.com/challenges/kmp-fp/problem

[06] https://www.hackerrank.com/challenges/john-and-fences/problem

[07] https://www.hackerrank.com/challenges/range-minimum-query/problem

[08] https://www.hackerrank.com/challenges/tree-manager/problem

[09] https://www.hackerrank.com/challenges/matrix-rotation/problem

[10] https://www.hackerrank.com/challenges/stocks-prediction/problem

[11] https://www.hackerrank.com/challenges/fighting-armies/problem

[12] https://www.hackerrank.com/challenges/order-exercises/problem

[13] https://www.hackerrank.com/challenges/mirko-at-construction-site/problem

HackerRank - Memoization







[02] https://www.hackerrank.com/challenges/fibonacci-fp/problem

[03] https://www.hackerrank.com/challenges/different-ways-fp/problem

[04] https://www.hackerrank.com/challenges/number-of-binary-search-tree/problem

[05] https://www.hackerrank.com/challenges/dice-path/problem

[06] https://www.hackerrank.com/challenges/sherlock-and-the-maze/problem

[07] https://www.hackerrank.com/challenges/password-cracker-fp/problem

[08] https://www.hackerrank.com/challenges/reverse-factorization/problem

[09] https://www.hackerrank.com/challenges/bangalore-bank/problem

[10] https://www.hackerrank.com/challenges/expressions/problem

HackerRank - Ad-Hoc







- [02] https://www.hackerrank.com/challenges/remove-duplicates/problem
- [03] https://www.hackerrank.com/challenges/huge-gcd-fp/problem
- [04] https://www.hackerrank.com/challenges/missing-numbers-fp/problem
- [05] https://www.hackerrank.com/challenges/common-divisors/problem
- [06] https://www.hackerrank.com/challenges/subset-sum/problem
- [07] https://www.hackerrank.com/challenges/jumping-bunnies/problem
- [08] https://www.hackerrank.com/challenges/mango/problem
- [09] https://www.hackerrank.com/challenges/captain-prime/problem
- [10] https://www.hackerrank.com/challenges/minimum-multiple/problem
- [11] https://www.hackerrank.com/challenges/messy-medians/problem
- [12] https://www.hackerrank.com/challenges/boleyn-salary/problem
- [13] https://www.hackerrank.com/challenges/kundu-and-bubble-wrap/problem
- [14] https://www.hackerrank.com/challenges/puzzle-and-pc/problem
- [15] https://www.hackerrank.com/challenges/game-of-kyles/problem
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- [17] https://www.hackerrank.com/challenges/convolutional-coding/problem

HackerRank - Misc





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- [02] https://www.hackerrank.com/challenges/brainf-k-interpreter-fp/problem
- [03] https://www.hackerrank.com/challenges/expressions-v2/problem
- [04] https://www.hackerrank.com/challenges/while-language-fp/problem
- [05] https://www.hackerrank.com/challenges/intuitive-language/problem
- [06] https://www.hackerrank.com/challenges/down-with-abstractions/problem
- [07] https://www.hackerrank.com/challenges/infer/problem



- ✓ Section 1: Input/Output
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