# Python Programming Language

## Prepared by: Mohamed Ayman

Algorithm Engineer at Valeo

Deep Learning Researcher and Teaching Assistant

at The American University in Cairo (AUC)

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sw.eng.MohamedAyman@gmail.com

linkedin.com/in/cs-MohamedAyman

github.com/cs-MohamedAyman

codeforces.com/profile/Mohamed_Ayman

# Python Collections and Strings Practice

# Lecture Agenda

We will discuss in this lecture the following topics

1- String        [65 problems]

2- Collections        [120 problems]

3- Implementation I        [100 problems]

4- Implementation II        [100 problems]

5- Implementation III        [100 problems]

Let's
STARTUP

# Lecture Agenda

### Section 1: String

Section 2: Collections

Section 3: Implementation I

Section 4: Implementation II

Section 5: Implementation III

# Codeforces - String

[01]  CF-Round 369:  http://codeforces.com/problemset/problem/711/A

[02]  CF-Round 374:  http://codeforces.com/problemset/problem/721/A

[03]  CF-Round 379:  http://codeforces.com/problemset/problem/734/A

[04]  CF-Round 162:  http://codeforces.com/problemset/problem/265/A

[05]  CF-Round 163:  http://codeforces.com/problemset/problem/266/A

[06]  CF-Round 225:  http://codeforces.com/problemset/problem/384/A

[07]  CF-Round 253:  http://codeforces.com/problemset/problem/443/A

[08]  CF-Round 343:  http://codeforces.com/problemset/problem/629/A

[09]  CF-Round 360:  http://codeforces.com/problemset/problem/688/A

[10]  CF-Round 376:  http://codeforces.com/problemset/problem/731/A

[11]  CF-Round 127:  http://codeforces.com/problemset/problem/202/A

[12]  CF-Round 173:  http://codeforces.com/problemset/problem/282/A

[13]  CF-Round 197:  http://codeforces.com/problemset/problem/339/A

[14]  CF-Round 265:  http://codeforces.com/problemset/problem/465/A

[15]  CF-Round 295:  http://codeforces.com/problemset/problem/520/A

[16]  CF-Round 301:  http://codeforces.com/problemset/problem/540/A

[17]  CF-Round 309:  http://codeforces.com/problemset/problem/554/A

# Codeforces - String

[18]  CF-Round 347:  http://codeforces.com/problemset/problem/664/A

[19]  CF-Round 385:  http://codeforces.com/problemset/problem/745/A

[20]  CF-Round 397:  http://codeforces.com/problemset/problem/765/A

[21]  CF-Round 104:  http://codeforces.com/problemset/problem/146/A

[22]  CF-Round 189:  http://codeforces.com/problemset/problem/320/A

[23]  CF-Round 219:  http://codeforces.com/problemset/problem/373/A

[24]  CF-Round 221:  http://codeforces.com/problemset/problem/376/A

[25]  CF-Round 227:  http://codeforces.com/problemset/problem/387/A

[26]  CF-Round 234:  http://codeforces.com/problemset/problem/400/A

[27]  CF-Round 242:  http://codeforces.com/problemset/problem/424/A

[28]  CF-Round 271:  http://codeforces.com/problemset/problem/474/A

[29]  CF-Round 378:  http://codeforces.com/problemset/problem/733/A

[30]  CF-Round 380:  http://codeforces.com/problemset/problem/738/A

[31]  CF-Round 382:  http://codeforces.com/problemset/problem/735/A

[32]  CF-Round 130:  http://codeforces.com/problemset/problem/208/A

[33]  CF-Round 135:  http://codeforces.com/problemset/problem/219/A

[34]  CF-Round 157:  http://codeforces.com/problemset/problem/259/A

# Codeforces - String

# Codeforces - String

# Lecture Agenda

✔ Section 1:  String

**Section 2:  Collections**

Section 3:  Implementation I

Section 4:  Implementation II

Section 5:  Implementation III

# Codeforces - List

[01]  CF-Round 161:    http://codeforces.com/problemset/problem/263/A

[02]  CF-Round 289:    http://codeforces.com/problemset/problem/509/A

[03]  CF-Round 330:    http://codeforces.com/problemset/problem/595/A

[04]  CF-Round 355:    http://codeforces.com/problemset/problem/677/A

[05]  CF-Round 392:    http://codeforces.com/problemset/problem/758/A

[06]  CF-Round 141:    http://codeforces.com/problemset/problem/228/A

[07]  CF-Round 146:    http://codeforces.com/problemset/problem/236/A

[08]  CF-Round 156:    http://codeforces.com/problemset/problem/255/A

[09]  CF-Round 160:    http://codeforces.com/problemset/problem/262/A

[10]  CF-Round 164:    http://codeforces.com/problemset/problem/268/A

[11]  CF-Round 223:    http://codeforces.com/problemset/problem/381/A

[12]  CF-Round 243:    http://codeforces.com/problemset/problem/426/A

[13]  CF-Round 244:    http://codeforces.com/problemset/problem/427/A

[14]  CF-Round 290:    http://codeforces.com/problemset/problem/510/A

[15]  CF-Round 338:    http://codeforces.com/problemset/problem/615/A

[16]  CF-Round 364:    http://codeforces.com/problemset/problem/701/A

[17]  CF-Round 372:    http://codeforces.com/problemset/problem/716/A

# Codeforces - List

[18]  CF-Round 375:   http://codeforces.com/problemset/problem/723/A

[19]  CF-Round 103:   http://codeforces.com/problemset/problem/144/A

[20]  CF-Round 109:   http://codeforces.com/problemset/problem/155/A

[21]  CF-Round 170:   http://codeforces.com/problemset/problem/278/A

[22]  CF-Round 178:   http://codeforces.com/problemset/problem/294/A

[23]  CF-Round 192:   http://codeforces.com/problemset/problem/330/A

[24]  CF-Round 235:   http://codeforces.com/problemset/problem/401/A

[25]  CF-Round 239:   http://codeforces.com/problemset/problem/408/A

[26]  CF-Round 240:   http://codeforces.com/problemset/problem/415/A

[27]  CF-Round 246:   http://codeforces.com/problemset/problem/432/A

[28]  CF-Round 255:   http://codeforces.com/problemset/problem/447/A

[29]  CF-Round 279:   http://codeforces.com/problemset/problem/490/A

[30]  CF-Round 351:   http://codeforces.com/problemset/problem/673/A

[31]  CF-Round 356:   http://codeforces.com/problemset/problem/680/A

[32]  CF-Round 370:   http://codeforces.com/problemset/problem/712/A

[33]  CF-Round 111:   http://codeforces.com/problemset/problem/160/A

[34]  CF-Round 129:   http://codeforces.com/problemset/problem/205/A

# Codeforces - List

[35]  CF-Round 132:  http://codeforces.com/problemset/problem/215/A

[36]  CF-Round 142:  http://codeforces.com/problemset/problem/230/A

[37]  CF-Round 150:  http://codeforces.com/problemset/problem/244/A

[38]  CF-Round 167:  http://codeforces.com/problemset/problem/272/A

[39]  CF-Round 168:  http://codeforces.com/problemset/problem/275/A

[40]  CF-Round 196:  http://codeforces.com/problemset/problem/337/A

[41]  CF-Round 211:  http://codeforces.com/problemset/problem/363/A

[42]  CF-Round 216:  http://codeforces.com/problemset/problem/369/A

[43]  CF-Round 238:  http://codeforces.com/problemset/problem/405/A

[44]  CF-Round 252:  http://codeforces.com/problemset/problem/441/A

[45]  CF-Round 257:  http://codeforces.com/problemset/problem/450/A

[46]  CF-Round 268:  http://codeforces.com/problemset/problem/469/A

[47]  CF-Round 283:  http://codeforces.com/problemset/problem/496/A

[48]  CF-Round 303:  http://codeforces.com/problemset/problem/545/A

[49]  CF-Round 307:  http://codeforces.com/problemset/problem/551/A

[50]  CF-Round 314:  http://codeforces.com/problemset/problem/567/A

[51]  CF-Round 317:  http://codeforces.com/problemset/problem/572/A

# Codeforces - List

[52] CF-Round 321:  http://codeforces.com/problemset/problem/580/A

[53] CF-Round 323:  http://codeforces.com/problemset/problem/583/A

[54] CF-Round 334:  http://codeforces.com/problemset/problem/604/A

[55] CF-Round 341:  http://codeforces.com/problemset/problem/621/A

[56] CF-Round 344:  http://codeforces.com/problemset/problem/631/A

[57] CF-Round 354:  http://codeforces.com/problemset/problem/676/A

[58] CF-Round 363:  http://codeforces.com/problemset/problem/699/A

[59] CF-Round 368:  http://codeforces.com/problemset/problem/707/A

[60] CF-Round 399:  http://codeforces.com/problemset/problem/768/A

[61] CF-Round 106:  http://codeforces.com/problemset/problem/149/A

[62] CF-Round 108:  http://codeforces.com/problemset/problem/152/A

[63] CF-Round 110:  http://codeforces.com/problemset/problem/157/A

[64] CF-Round 112:  http://codeforces.com/problemset/problem/165/A

[65] CF-Round 134:  http://codeforces.com/problemset/problem/218/A

[66] CF-Round 149:  http://codeforces.com/problemset/problem/242/A

[67] CF-Round 179:  http://codeforces.com/problemset/problem/296/A

[68] CF-Round 182:  http://codeforces.com/problemset/problem/302/A

# Codeforces - List

[69]  CF-Round 204:    http://codeforces.com/problemset/problem/352/A

[70]  CF-Round 209:    http://codeforces.com/problemset/problem/359/A

[71]  CF-Round 215:    http://codeforces.com/problemset/problem/368/A

[72]  CF-Round 226:    http://codeforces.com/problemset/problem/385/A

[73]  CF-Round 228:    http://codeforces.com/problemset/problem/389/A

[74]  CF-Round 249:    http://codeforces.com/problemset/problem/435/A

[75]  CF-Round 251:    http://codeforces.com/problemset/problem/439/A

[76]  CF-Round 263:    http://codeforces.com/problemset/problem/462/A

[77]  CF-Round 284:    http://codeforces.com/problemset/problem/499/A

[78]  CF-Round 287:    http://codeforces.com/problemset/problem/507/A

[79]  CF-Round 299:    http://codeforces.com/problemset/problem/535/A

[80]  CF-Round 313:    http://codeforces.com/problemset/problem/560/A

[81]  CF-Round 325:    http://codeforces.com/problemset/problem/586/A

[82]  CF-Round 336:    http://codeforces.com/problemset/problem/608/A

[83]  CF-Round 373:    http://codeforces.com/problemset/problem/719/A

[84]  CF-Round 113:    http://codeforces.com/problemset/problem/166/A

[85]  CF-Round 137:    http://codeforces.com/problemset/problem/222/A

# Codeforces - List

[86] CF-Round 147: http://codeforces.com/problemset/problem/237/A

[87] CF-Round 153: http://codeforces.com/problemset/problem/252/A

[88] CF-Round 159: http://codeforces.com/problemset/problem/257/A

[89] CF-Round 181: http://codeforces.com/problemset/problem/300/A

[90] CF-Round 191: http://codeforces.com/problemset/problem/327/A

[91] CF-Round 202: http://codeforces.com/problemset/problem/349/A

[92] CF-Round 207: http://codeforces.com/problemset/problem/357/A

[93] CF-Round 218: http://codeforces.com/problemset/problem/371/A

[94] CF-Round 248: http://codeforces.com/problemset/problem/433/A

[95] CF-Round 260: http://codeforces.com/problemset/problem/456/A

[96] CF-Round 269: http://codeforces.com/problemset/problem/471/A

[97] CF-Round 282: http://codeforces.com/problemset/problem/495/A

[98] CF-Round 288: http://codeforces.com/problemset/problem/508/A

[99] CF-Round 311: http://codeforces.com/problemset/problem/557/A

[100] CF-Round 312: http://codeforces.com/problemset/problem/558/A

[101] CF-Round 316: http://codeforces.com/problemset/problem/570/A

[102] CF-Round 318: http://codeforces.com/problemset/problem/574/A

# Codeforces - List

[103] CF-Round 331:   http://codeforces.com/problemset/problem/596/A

[104] CF-Round 333:   http://codeforces.com/problemset/problem/602/A

[105] CF-Round 335:   http://codeforces.com/problemset/problem/606/A

[106] CF-Round 398:   http://codeforces.com/problemset/problem/767/A

[107] CF-Round 155:   http://codeforces.com/problemset/problem/254/A

[108] CF-Round 199:   http://codeforces.com/problemset/problem/342/A

[109] CF-Round 201:   http://codeforces.com/problemset/problem/347/A

[110] CF-Round 203:   http://codeforces.com/problemset/problem/350/A

[111] CF-Round 205:   http://codeforces.com/problemset/problem/353/A

[112] CF-Round 264:   http://codeforces.com/problemset/problem/463/A

[113] CF-Round 278:   http://codeforces.com/problemset/problem/489/A

[114] CF-Round 390:   http://codeforces.com/problemset/problem/754/A

[115] CF-Round 187:   http://codeforces.com/problemset/problem/315/A

[116] CF-Round 208:   http://codeforces.com/problemset/problem/358/A

[117] CF-Round 229:   http://codeforces.com/problemset/problem/390/A

[118] CF-Round 232:   http://codeforces.com/problemset/problem/397/A

[119] CF-Round 233:   http://codeforces.com/problemset/problem/399/A

# Lecture Agenda

✔ Section 1:  String

✔ Section 2:  Collections

**Section 3:  Implementation I**

Section 4:  Implementation II

Section 5:  Implementation III

# HackerEarth – Implementation I

[01] https://www.hackerearth.com/practice/data-structures/arrays/1-d/practice-problems/algorithm/pair-sum-1-0062d9ab/

[02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/digit-problem/

[03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/city-travel-59bad87f/

[04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/array-insert/

[05] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/rain-41f57695/

[06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/approximate/killjee-and-easy-problem/

[07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/fitting-circles-c00a5be3/

[08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/distribute-chocolates-70c2c2ab/

[09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/print-hackerearth/

[10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/psychic-powers/

[11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/binary-associativity-fc8ca73f/

[12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/hawkeye-and-floodfill/

[13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-dice-d4dc5b11/

[14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/one-string-no-trouble-37037871/

[15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/set-numbers-bea74f5a/

[16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-great-kian/

[17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/count-numbers-46/

[18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/array-sum-2-725368ac/

# HackerEarth – Implementation I

[19] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/plus-plus-60bcac48/

[20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/magical-tree/

[21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/find-the-pattern-6/

[22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/very-easy-1/

[23] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/min-max-3/

[24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/complete-the-syllabus/

[25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/jarvis-and-seven-segments-1/

[01] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/ques-6/

[02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/ques-2/

[03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/string-sum/

[04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/city-group-3/

[05] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/invert-it-b06fd53a/

[06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/presidential-problem/

[07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/batman-and-tick-tack-toe/

[08] https://www.hackerearth.com/practice/b/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/round-table-killers-b7b93156/

[09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/color-the-boxes-47270a3b/

[10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/addition-aint-simple/

[11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/alice-and-string-game-dbd6adc3/

[12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/gupta-chaturvedi-and-saxena-trilogy-b/

[13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/case-conversion-d19fbcfe/

[14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bob-and-bombs-cake-walk/

[15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/shreya-and-non-palindrome/

[16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/pythagorean-triangles-0158a4c5/

[17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/approximate/bank-data-consistency-check-3899a127/

[18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/final-destination-cakewalk/

# HackerEarth – Implementation II

[19] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/warcakewalk/

[20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/image-smoothing-3/

[21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/golf/jadoo-hates-maths/

[22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/diwali-celebration/

[23] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/tic-tac-toe-thingy-7ce8b17b/

[24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/heman-anil-and-soubhik/

[25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/killjee-and-superdromes-1f1d31c3/

# HackerEarth - Implementation III

[01] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/shitty-fortune/

[02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-savior-3/

[03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/ispalin/

[04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/airfares-dbef7f12/

[05] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/mancunian-in-palindromia-3/

[06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bracket-balancer-b9f56e12/

[07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/countries-grouping-1-5b13620a/

[08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/reflection-is-every-thing-2fff0566/

[09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/mr-x-and-string-4836920e/

[10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/rhezo-and-character-frequency-3/

[11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/mosalas-mostatilioo-f012275c/

[12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/acronym-2/

[13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/epiphany-coming-soon-43c4af4b/

[14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/greatest-string-fcf3e37c/

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# Lecture Agenda

✔ Section 1: String

✔ Section 2: Collections

✔ Section 3: Implementation I

Section 4: Implementation II

Section 5: Implementation III

# HackerEarth - Implementation I

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# Lecture Agenda

✔ Section 1: String

✔ Section 2: Collections

✔ Section 3: Implementation I

✔ Section 4: Implementation II

**Section 5: Implementation III**

# HackerEarth - Implementation I

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# Lecture Agenda

✔ Section 1: String

✔ Section 2: Collections

✔ Section 3: Implementation I

✔ Section 4: Implementation II

✔ Section 5: Implementation III