

HackerEarth Online Judge

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HackerEarth Online Judge - Phase 1.3

We will discuss in this lecture the following topics

1- Implementation I

2- Implementation II

3- Implementation III

4- Implementation IV

[25 problems]

[25 problems]

[25 problems]

[25 problems]









Section 2: Implementation II

Section 3: Implementation III



HackerEarth - Implementation I







- [02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/recursive-sums/
- [03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/easy-task-1/
- [04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/counting-strings/
- [05] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/coin-game-3-1762eeeb/
- [06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/gym-freak-tds/
- [07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/roys-life-cycle-44/
- [08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/fredo-and-game/
- [09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/roys-life-cycle/
- [10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/pepper-and-palindromic-love-76ae8763/
- [11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/cricket-rating-30/
- [12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/posters-on-the-wall/
- [13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/find-the-couples/
- [14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/not-decided-1ca0c947/
- [15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/special-sum-3/
- [16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/rov-and-leds-6/
- [17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/chess-tournament-4/
- [18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/counting-rr/

HackerEarth - Implementation I





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[22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/complete-string-4/









[21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/milly-and-chocolates-ii-65198198/

[25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/monk-and-digital-world-code-monk/







✓ Section 1: Implementation I

Section 2: Implementation II

Section 3: Implementation III



HackerEarth - Implementation II







- [02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/encrypted-love/
- [03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/golf/modulo-strength-4/
- [04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/step-up-0aa9708f/



- [06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/distribution-1-3800e537/
- [07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-pattern-c9e759e9/
- [08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/cheapest-subarray-d628cb65/
- [09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/brick-and-building-26cc28f2/
- [10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/techfest-and-group-photo-06dfebc0/
- [11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/easy-multiples/
- [12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/fla06-1-81b4419c/
- [13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/k-devices-96ablc02/
- [14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/all-equal-tree-401d4399/
- [15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/debts-429c5441/
- [16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/array-game-1-3bdd5d12/
- [17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/horizontal-or-vertical/
- [18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bhupees-craze-7d960eab-24ff51e3/

HackerEarth - Implementation II







[20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/benny-and-balls/

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

[22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/dummy1-3/



[24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/doraemon-loves-doracakes/

[25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/shil-and-square-sum-qualifier2/



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✓ Section 1: Implementation I

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- ✓ Section 2: Implementation II
 - Section 3: Implementation III



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- 01] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/decode-it-b9e630e9/
- [02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/dummy-27/
- [03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/jumping-tokens/
- [04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/totakeornottotake/



- [06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/equal-bitwise-operations-33fa5acd/
- [07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/sherlock-and-special-count/
- [08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/lexographic-rows-c0c0b337/
- [09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/karthik-and-the-robot-d7497742/
- [10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/odwrotna-notacja-polska-04e51d5a/
- [11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bob-and-beauty-of-the-array-3b35ef14/
- [12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/little-shino-and-the-tournament/
- [13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/vegetable-market-ea2b4462/
- [14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/ways-to-a-bst-54177cac/
- [15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/shil-and-survival-game/
- [16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/missile-bombing-cd56ab51/
- [17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/problem-16-b45b3a5d/
- [18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-game-1-8cb01c18/

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- [19] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/survey-analysis/
- [20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/ratio-d0549bb2/
- [21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/fashion-line-1/
- [22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bus-journey-3754c143/
- [23] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/dhiman-and-the-flawed-api/
- [24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/lonely-monk-code-monk/
- [25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/aman-and-his-birthday-gift-b5268b97/



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- ✓ Section 2: Implementation II
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- [02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/capital-92c227f3/
- [03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/cryptic/
- [04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/clock-1/



- [06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/geometric-sequence-39a5617d/
- [07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/another-xor-problem-1-8f7f54e8/
- [08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/explosive-game/
- [09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bob-and-subset-23f0729c/
- [10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/mind-flayer-returns-68bb7306/
- [11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/aabbaac/
- [12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/guess-the-permutation-easy-contest/
- [13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/equal-median-8aba723b/
- [14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/flip-the-door-5/
- [15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/indian-vs-arabs-2/
- [16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/chocolates-boxes-1/
- [17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/monk-and-conversion-game-code-monk/
- [18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/doraemon-gets-diwali-gift-as-palindrome/

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[20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/indent-ruby-1/

[21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/c-absolute-prime/

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



[24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/numbers-of-interest-2-1/



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- ✓ Section 2: Implementation II
- ✓ Section 3: Implementation III
- ✓ Section 4: Implementation IV



