

Algorithms:

1. Make sure you can formulate design and implement basic algorithms.

<https://www.hackerrank.com/challenges/mini-max-sum/problem>

<https://www.hackerrank.com/challenges/birthday-cake-candles/problem>

<https://www.hackerrank.com/challenges/compare-the-triplets/problem>

2. Learn about writing practical algorithms involving games.

<https://www.hackerrank.com/challenges/queens-attack-2/problem>

<https://www.hackerrank.com/challenges/two-pluses/problem>

<https://www.hackerrank.com/challenges/bomber-man/problem>

3. Algorithms based on Strings.

<https://www.hackerrank.com/challenges/richie-rich/problem>

<https://www.hackerrank.com/challenges/common-child/problem>

<https://www.hackerrank.com/challenges/string-function-calculation/problem>

4. Sorting algorithms.

<https://www.hackerrank.com/challenges/countingsort2/problem>

<https://www.hackerrank.com/challenges/fraudulent-activity-notifications/problem>

<https://www.hackerrank.com/challenges/lilys-homework/problem>

5. Searching algorithms.

<https://www.hackerrank.com/challenges/herlock-and-array/problem>

<https://www.hackerrank.com/challenges/missing-numbers/problem>

<https://www.hackerrank.com/challenges/gena/problem>

6. Graph Algorithms

<https://www.hackerrank.com/challenges/bfsshortreach/problem>

<https://www.hackerrank.com/challenges/kruskalmstrsub/problem>

<https://www.hackerrank.com/challenges/primsmsub/problem>

7. Greedy Algorithms

<https://www.hackerrank.com/challenges/luck-balance/problem>

<https://www.hackerrank.com/challenges/greedy-florist/problem>

<https://www.hackerrank.com/challenges/board-cutting/problem>

8. Dynamic Programming.

<https://www.hackerrank.com/challenges/kingdom-division/problem>

<https://www.hackerrank.com/challenges/fibonacci-modified/problem>

<https://www.hackerrank.com/challenges/choosing-white-balls/problem>

9. Constructive Algorithms.

<https://www.hackerrank.com/challenges/lena-sort/problem>

<https://www.hackerrank.com/challenges/new-year-chaos/problem>

<https://www.hackerrank.com/challenges/flipping-the-matrix/problem>

10. Bit manipulation.

<https://www.hackerrank.com/challenges/maximizing-xor/problem>

<https://www.hackerrank.com/challenges/sansa-and-xor/problem>

<https://www.hackerrank.com/challenges/xor-key/problem>

11. Recursion.

<https://www.hackerrank.com/challenges/crossword-puzzle/problem>

<https://www.hackerrank.com/challenges/password-cracker/problem>

<https://www.hackerrank.com/challenges/k-factorization/problem>

12. NP-Complete.

<https://www.hackerrank.com/challenges/sams-puzzle/problem>

<https://www.hackerrank.com/challenges/spies-revised/problem>

<https://www.hackerrank.com/challenges/tbsp/problem>

Other Sites: <https://leetcode.com/>
<https://www.interviewbit.com/>
<https://www.codechef.com/>