

# HackerRank -> Practice -> Algorithms -> Dynamic Programming -> Sam and sub-strings

[Submit Assignment](#)

---

<b>Due</b>	Monday by 6pm	<b>Points</b>	100	<b>Submitting</b>	a file upload	<b>File Types</b>	zip
------------	---------------	---------------	-----	-------------------	---------------	-------------------	-----

---

Submit the source code and test cases for your solution to HackerRank -> Practice -> Algorithms -> Dynamic Programming -> Sam and sub-strings

<https://www.hackerrank.com/challenges/sam-and-substrings/problem>

- You may use **ANY** language you like this time, as long as it's an option inside HackerRank. (Of course, if you come to us for help, you must be working in C/C++/Java/Python.)
- Source code must be named substrings.(correct extension for language).
- Source code must be commented. (In a real contest we don't have time to comment, but we want to learn techniques in this course that we revisit and reuse.)
- **No credit** will be given for solutions that **brute force** the answer, even if they pass on HackerRank.
- Test cases should be written in a file called **testcases.txt**. Make sure they are meaningful and test a wide range of inputs. You must submit 10 test cases.

You may work in teams of **3**. Be sure to include each person's name at the top of the file as well as the pledge. Also, put the team members' names in a comment on Canvas to facilitate grading. Each team should upload a single zip file called substrings.zip with the source code and test cases inside.

## Note:

If you cannot get your code to pass the tests on HackerRank, you should also submit a PDF in your zip file explaining:

- What type of error you are getting on HackerRank. (You may "purchase" the input to the test case you are failing.)
- What you tried to accomplish when coding the algorithm.
- What test cases you ran locally and what is wrong with the output. If you see nothing wrong with any test cases locally, double check corner cases.
- How you went about tracing/debugging your code.

The more information you provide, the easier it is for someone to help you correct your problem.