

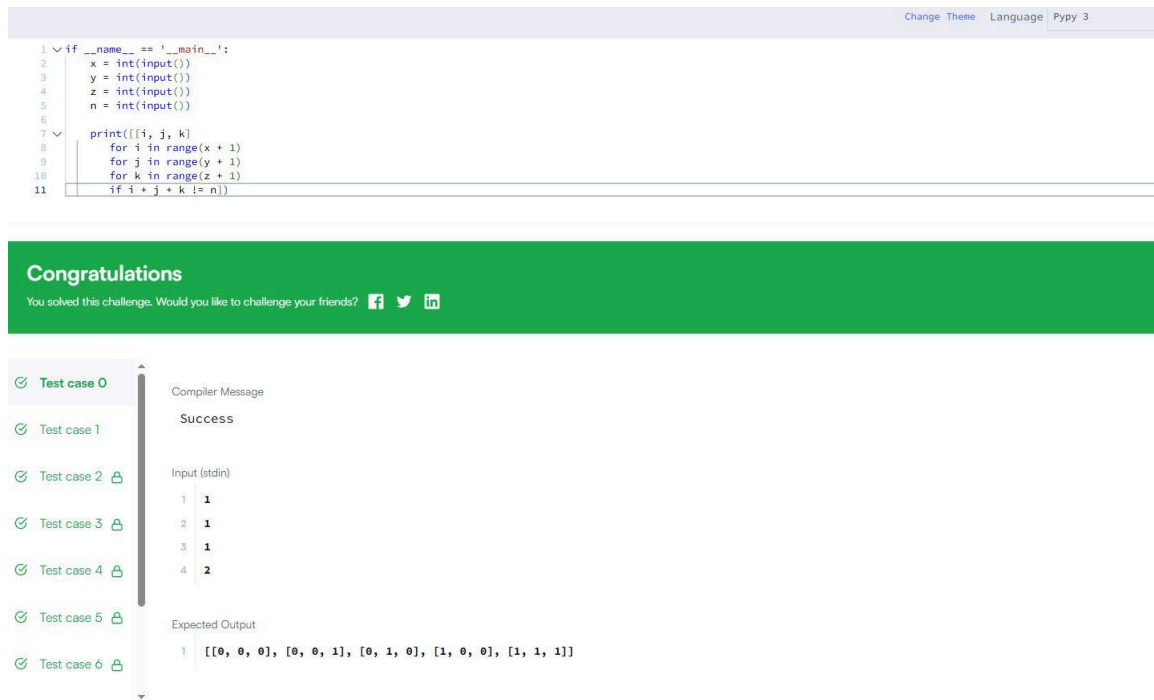
The simple prompt we gave to ChatGPT was as follows:

*“You need to solve the following hackerrank problems in Python.”*

And we just past the HackerRank URLs to it.

### Easy:

For this one, ChatGPT was able to write the perfect program and get a full score without the need for further prompt engineering.



### Medium:

For this one, ChatGPT initially failed to produce a program that works:

```
import math

AB = int(input().strip())
BC = int(input().strip())

theta = round(math.degrees(math.atan2(AB, BC)))
print(f"{theta}")
```

Line: 9 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

## Fetching Results

- ✖ Test case 0
- ✖ Test case 1
- ✖ Test case 2
- ✖ Test case 3
- ✖ Test case 4
- ✖ Test case 5

After providing more context and giving more specific instructions, it was able to correct itself and get a full score:

```
import math
AB = int(input().strip())
BC = int(input().strip())

# = atan(AB / BC) in degrees, rounded to nearest integer
theta = round(math.degrees(math.atan2(AB, BC)))
print(f"{theta}{chr(176)}")
```

## Congratulations

You solved this challenge. Would you like to challenge your friends?

Test case 0	Compiler Message
Test case 1	Success
Test case 2	Input (stdin)
Test case 3	1 10
Test case 4	2 10
Test case 5	Expected Output
	1 45°

## Hard:

For this one, ChatGPT was able to write the perfect program and get a full score without the need for further prompt engineering.

```
k, m = map(int, input().split())
lists = []

for _ in range(k):
    nums = list(map(int, input().split()))
    # nums[0] is the count; the rest are values
    arr = nums[1:]
    # Pre-square and mod m since (a^2 + b^2 + ... ) % m == (a^2%m + b^2%m + ... ) % m
    lists.append([(x * x) % m for x in arr])

# DP over remainders to avoid combinatorial explosion
remainders = {0}
for opts in lists:
    new_remainders = set()
    for r in remainders:
        for v in opts:
            new_remainders.add((r + v) % m)
    remainders = new_remainders

print(max(remainders))
```

## Congratulations

You solved this challenge. Would you like to challenge your friends?

✓ Test case 0

✓ Test case 1

✓ Test case 2

✓ Test case 3

✓ Test case 4

✓ Test case 5

✓ Test case 6

Compiler Message

Success