Determine the Day of the Week

Given a date as three numbers (year, month, day), write a program to compute the corresponding day of the week. Use the following algorithm to determine the day of the week (0 for Sunday, 1 for Monday, etc.):

- If the month is less than 3, add 12 to the month and subtract 1 from the year.
- Let $a=2m+6(m+1)//10$
- Let $b=y+y//4-y//100+y//400$
- Let $f1=d+a+b+1$
- Let $f=f1\%7$

The program should read the date as three numbers separated by spaces and output the corresponding day of the week.

Function Description

Complete the `'calculate_day_of_week'` function.

`'calculate_day_of_week'` has the following parameters:

- `y` (int): the year
- `m` (int): the month
- `d` (int): the day

Prints:

- The corresponding day of the week (0 for Sunday, 1 for Monday, etc.).

Input Format

A single line of input containing three integers, `y`, `m`, and `d`, separated by spaces.

Constraints

- The year `y` is a positive integer.

- The month `m` is an integer between 1 and 12.
- The day `d` is an integer between 1 and 31.

Sample Input

```
2021 6 24
```

Sample Output

```
4
```

Explanation

For the input date June 24, 2021:

- The month is 6.
- Using the given algorithm:
  - Adjusted values are `‘m = 6’`, `‘y = 2021’`.
  - $a=2\times6+6\times(6+1)//10=12+42//10=12+4=16$
  - $b=2021+2021//4-2021//100+2021//400=2021+505-20+5=2511$
  - $f1=24+16+2511+1=2552$
  - $f=2552\%7=4$
- Thus, the day of the week is 4, which corresponds to Thursday.