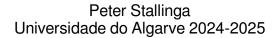
## Computer Architecture

Homework Assignment 1





The series sum S is given by

$$S(a,b,c,d) = \sum_{n=a}^{b} \sum_{m=c}^{d} (-1)^{n} (n-m)^{2}$$
.

Write a MIPS Assembly program that asks the user for the integer values of a, b, c and d, calculates the above series sum S(a, b, c, d), and prints the result.

```
Mars Messages Run I/O

Numbers a, b, c, d:
Give a number: 1
Give a number: 2
Give a number: 3
Give a number: 4
The series sum is -8
-- program is finished running --
```

- Groups of one (1) or two (2) people.
- Hand in one (1) file (aXXXXXaYYYYY.asm) at the Tutoria Electronica. (Not needed for both members of the group to hand in a file. One suffices).
- Deadline: 14 March 2025, 21h00 (Lisbon time).
- Write your names (2) as a comment in the first line of the file.