



Escuela de Ingeniería en Computación  
Ingeniería en Computación  
IC-6400 - Investigación de Operaciones

## **Project 04**

### Simplex Report

Gerald Calderón Castro  
gecalderon@estudiantec.cr  
2023125197

Óscar Obando Umaña  
osobando@estudiantec.cr  
2023091684

San José , Costa Rica  
November 2025

# Contents

0.1	Description . . . . .	1
0.2	Solving Problem Name . . . . .	1
0.2.1	Mathematical representation . . . . .	1
0.3	The initial simplex table . . . . .	1

## 0.1 Description

The simplex algorithm is a very simple algorithm.

## 0.2 Solving Problem Name

### 0.2.1 Mathematical representation

Maximize

$$z = 1,00000x_1 + 1,00000x_2 + -2,00000x_3 + 3,00000x_4 + -7,00000x_5 + 0,00000x_6 \quad (1)$$

## 0.3 The initial simplex table