First, you'll need to install the linprog-js package:

**npm install linprog-js**

Then, you can create a JavaScript file, let's say lp\_solver.js, and write the following code:

*javascript*

// Import the linprog function from linprog-js

const { linprog } = require('linprog-js');

// Define the coefficients of the objective function

const C = [4, 1.3, 1, 3.65, 3.8, 4, 8, 16, 32, 64];

// Define the coefficients of the inequality constraints matrix A

const A = [

[0.00032, 0.00048, 0.001, 0.06, 0.00024, 0.978, 0, 0, 0, 0],

[0.008, 0.004, 0.004, 0.008, 0.008, 0, 0.997, 0, 0, 0],

[0.004, 0.004, 0.0024, 0.003, 0.0052, 0, 0, 0.58, 0, 0],

[0.188, 0.168, 0.002, 0.178, 0.176, 0, 0, 0, 0.6, 0],

[0.096, 0, 0.002, 0.088, 0.094, 0, 0, 0, 0, 0.997]

];

// Define the right-hand side of the inequalities

const b = [0.24, 10, 10, 36, 10];

// Solve the linear programming problem

const result = linprog(C, A, b);

// Print the optimal values and the optimal objective value

console.log('Optimal values:', result.solution);

console.log('Optimal objective value:', result.value);

Save this code in a file named lp\_solver.js and run it using Node.js:

**node lp\_solver.js**

This code will output the optimal values of the decision variables and the optimal objective value.