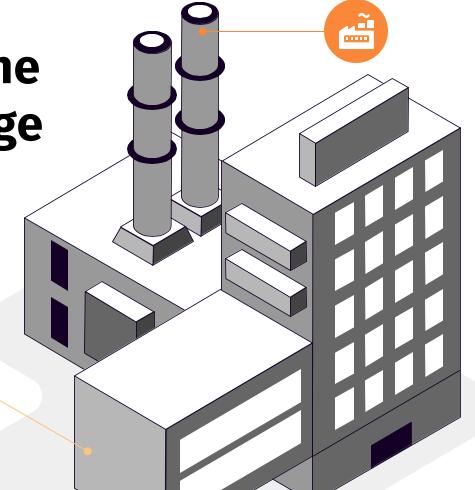
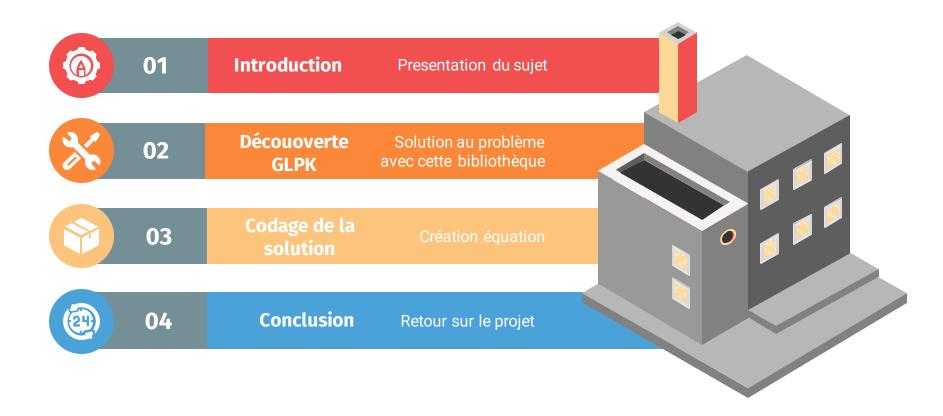


TD 7 | Groupe n°1



Laouïg ELEOUET | Terence FOUCHIER
Tom GODARD | Robin QUERIAUX

Sommaire



Versionning GIT

Répartition des tâches

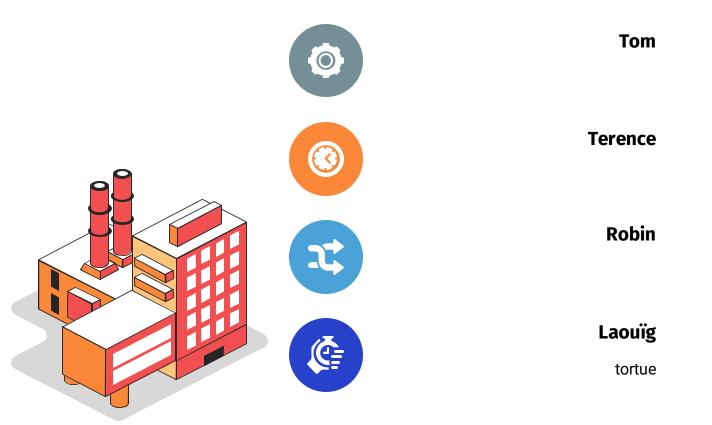
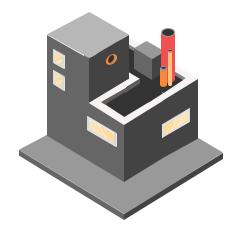
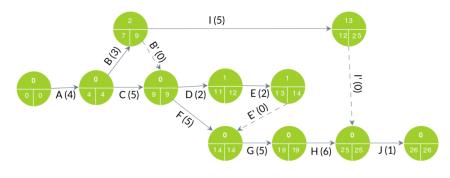


Diagramme de PERT

Tâche du projet	Durée (en jours)	Anteriorité
A Analyse du sujet et des exigences techniques	4	-
B Configuration d'un environement de dev.	3	А
C Initiation à GLPK / Algèbre linéaire	5	А
D Création des données	2	A,B,C
E Lecture des fichiers	2	D
F Modèle optimisation	5	B,C
G Tests unitaires	5	E,F
H Validation modèle	6	G
I Documentation et présentation	3	A,B
J Soutenance	1	н,г



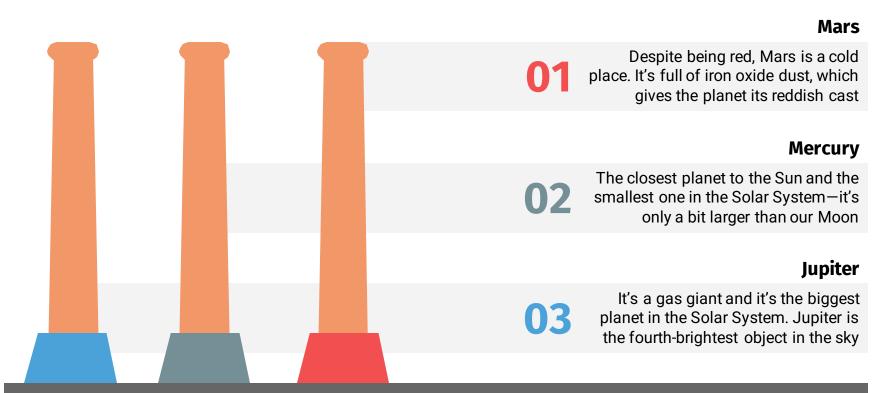


Approches abordées

Complexités algorithmiques

Algorithme	Complexité Temporelle	Complexité spatiale	Description
Ford-Fulkerson	O(Ef)	O(V + E)	Résout les problèmes de flux maximum dans un réseau, en augmentant le flux à travers les chemins jusqu'à atteindre la capacité maximale.
Djikstra	O(V²) ou O(E + V log V)	O(V)	Trouve le chemin le plus court entre un point de départ et tous les autres points dans un graphe pondéré.
Programmation linéaire (Simplex)	O(n^3) à O(n^3.5)		Utilisé en programmation linéaire pour trouver la solution optimale d'un problème d'optimisation (maximisation ou minimisation) en parcourant les sommets d'un polyèdre en espace multidimensionnel.

Diagramme / schémas et formules utilisées



Travail réalisé



01 Qu'avez vous entrepris ?

It's a gas giant and the biggest planet

02

Comment?

Venus is the second planet from the Sun

03 Résultats?

Earth is the planet where we live on

04 Rapid

Despite being red, Mars is a cold place

05 Flexible

Mercury is the closest planet to the Sun

Bilan individuel et collectif

Jupiter

Jupiter is a gas giant and also the biggest planet

Mars

Despite being red, Mars is a cold place

Neptune

Neptune is the farthest planet from the Sun



Mercury

Mercury is the closest planet to the Sun

Venus

Venus has a beautiful name and is the second

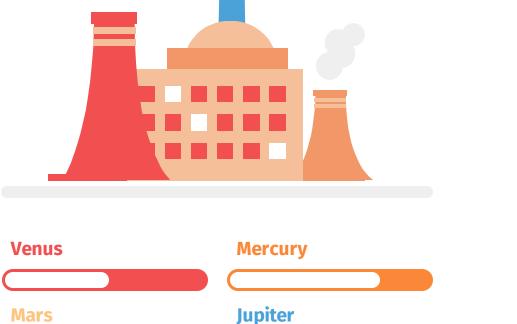
Earth

Earth is the only planet that harbors life

Nos sources

https://connect.ed-diamond.com/GNU-Linux-Magazine/glmf-135/decouverte-du-solveur-glpk





Mars



Venus has a beautiful name and is the second one from the Sun



Mercury is the closest planet to the Sun and the smallest one



Despite being red, Mars is a cold place full of iron oxide dust



It's a gas giant and the biggest planet in the Solar System

04

02

03

Algorithmes utilisés

Mars

Despite being red, Mars is a cold place. It's full of iron oxide dust

Mercury

It's the closest planet to the Sun and the smallest one



planet from the Sun

Venus

Jupiter

Jupiter is a gas giant and the biggest planet in the Solar System

Jupiter

It's a gas giant and the biggest planet

Mars

Despite being red, Mars is a cold place

Mercury

It's the closest planet to the Sun



Venus

Venus has a beautiful name, but it's very hot

Neptune

This is the farthest planet from the Sun

Nos sources



Project Process

Venus has a beautiful name and is the second one from the Sun



Jobbing Process

Mercury is the closest planet to the Sun and the smallest one



Labor Management

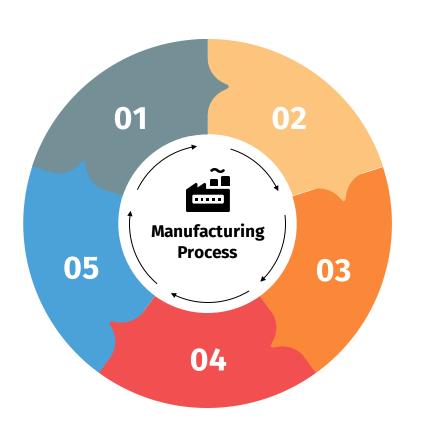
Despite being red, Mars is a cold place full of iron oxide dust



Quality Management

Jupiter is a gas giant and the biggest planet in the Solar System















Project Process

Venus has a beautiful name and is the second one from the Sun

Jobbing Process

Mercury is the closest planet to the Sun and the smallest one

Labor Management

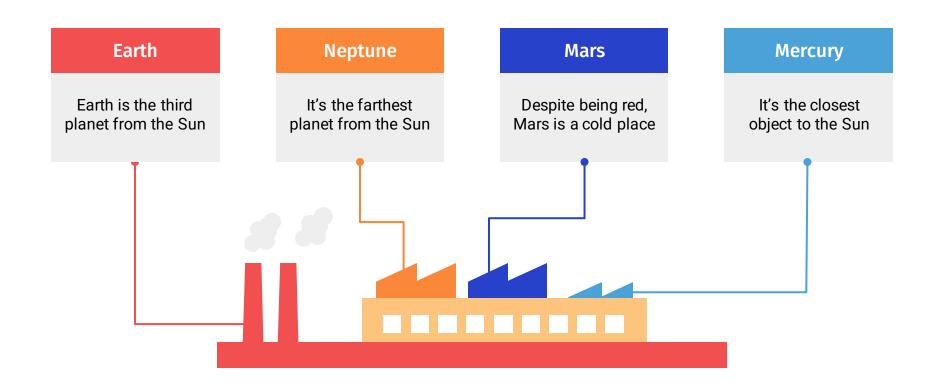
Despite being red, Mars is a cold place full of iron oxide dust

Quality Management

Jupiter is a gas giant and the biggest planet in the Solar System

Product Tracing

Neptune is the eighth planet and the farthest from the Sun





Just in time

Saturn is a gas giant and has rings



Mass customization

Neptune is the farthest planet from the Sun



Mercury is the smallest planet of them all



Agile

Jupiter is the biggest planet of them all

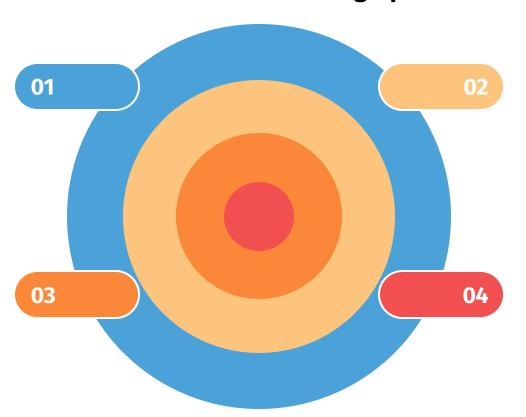


A Mercury

Mercury is the closest planet to the Sun and the smallest one

Jupiter

Jupiter is a gas giant and the biggest object in the Solar System



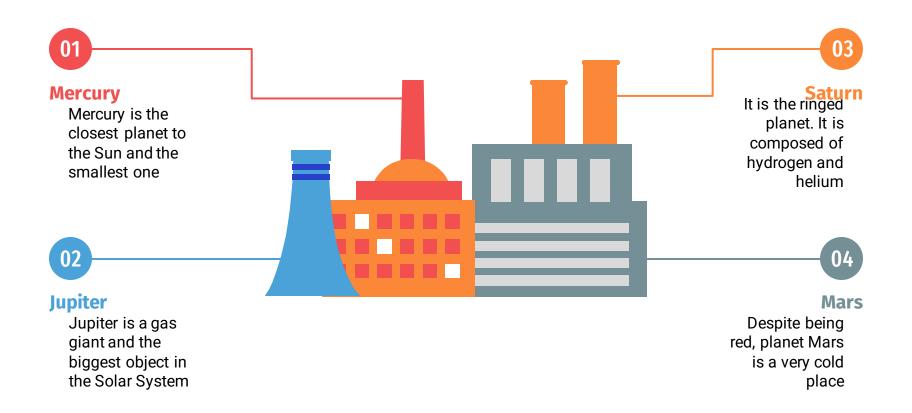


It is the ringed planet. It is composed of hydrogen and helium



Mars

Despite being red, planet Mars is a very cold place



Mass production

Mercury is the smallest planet of them all

Flexible

Neptune is the biggest planet of them all

Agile

Venus has a very poisonous atmosphere



Just in time

Saturn is the ringed planet from the Sun

Mass customization

Jupiter is the biggest planet of them all

Rapid

Despite being red, Mars is very cold



Despite being red, Mars is a cold place



It's a gas giant and the biggest planet



Mercury is the closest planet to the Sun





Venus is the second planet from the Sun

Juppiter

Jupiter is a gas giant and the biggest object in the Solar System

Saturn

It is the ringed planet. It is composed of hydrogen and helium

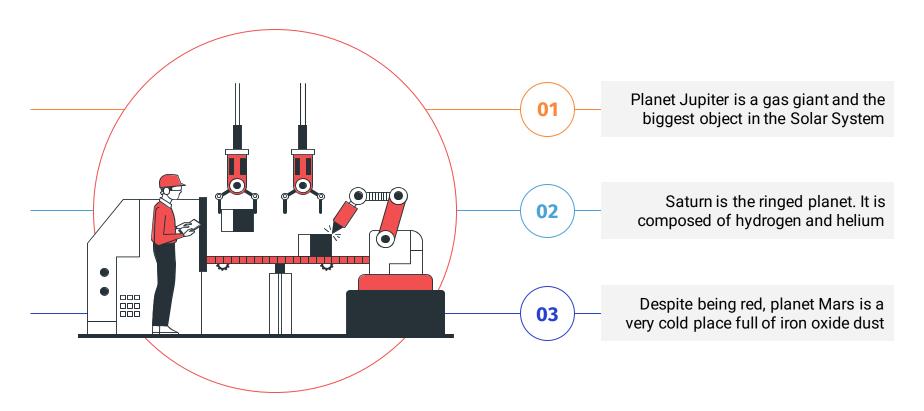


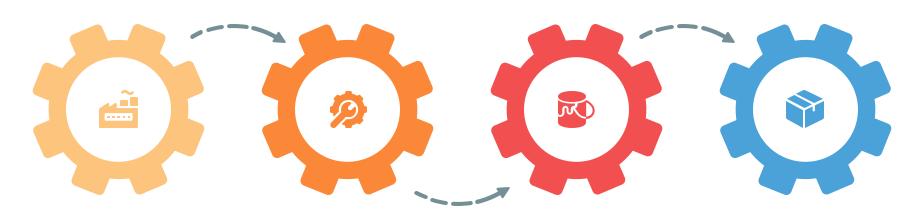
Mars

Despite being red, planet Mars is a very cold place

Mercury

Mercury is the closest planet to the Sun and the smallest one





Manufacturing

Despite being red, Mars is a cold place

Assembly

Mercury is the closest planet to the Sun

Coloring

Venus is the second planet from the Sun

Packing

It's a gas giant and the biggest planet

Earth

Earth is the third planet from the Sun

Neptune

Neptune is the farthest planet from the Sun

Saturn

Saturn is composed of hydrogen and helium



Mercury

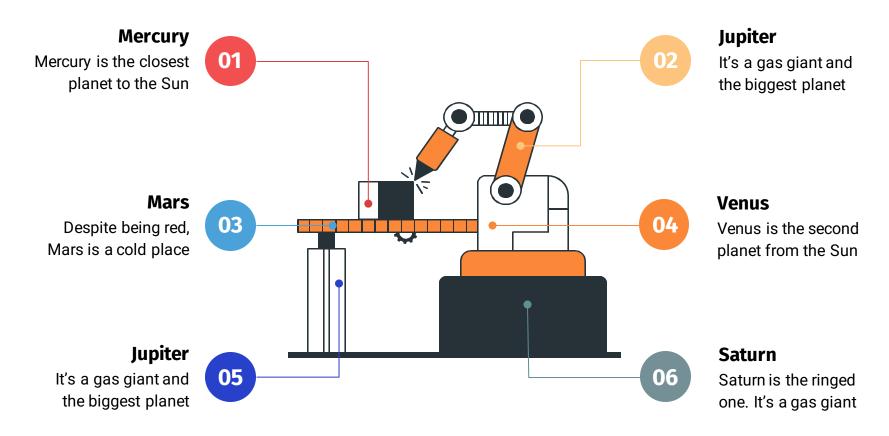
Planet Mercury is the closest object to the Sun

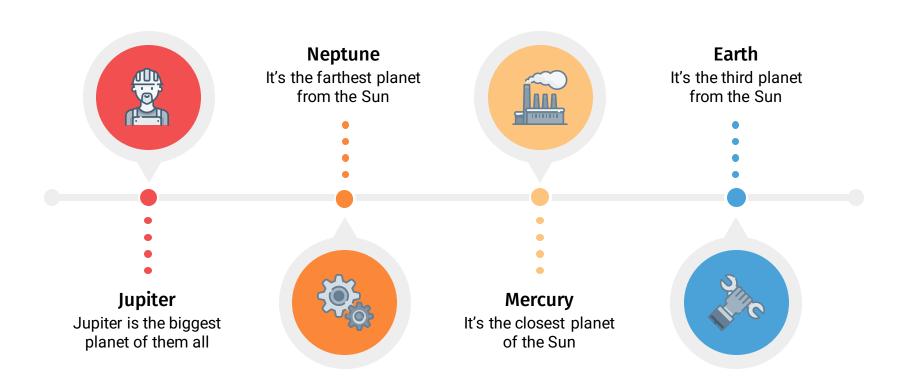
Mars

Despite being red, Mars is a cold place

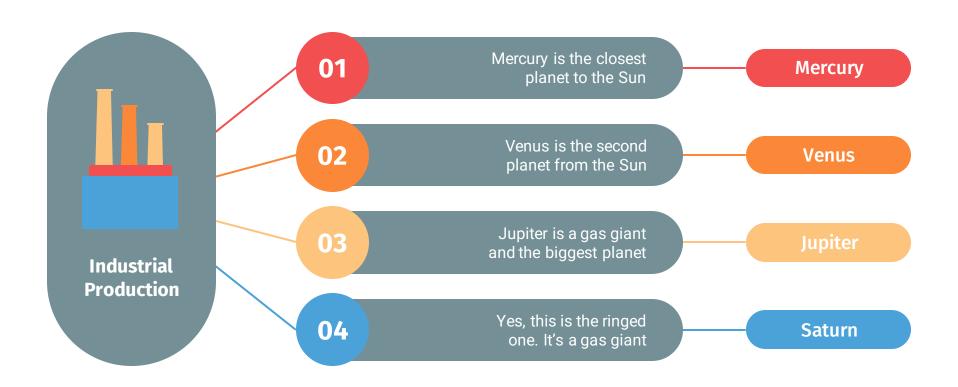
Jupiter

Jupiter is a gas giant and the biggest planet





			Mars	Mercury		Venus	
	Manufacture	It has a beautiful name and is the second planet	25%	50	%	25%	
*	Assembly	It's the closest planet to the Sun and the smallest	30%	20	%	50%	
	Customize	Despite being red, Mars is actually a cold place	35%	20	%	45%	





Mars

Despite being red, Mars is a cold place. It's full of iron oxide dust



Venus

Venus has a beautiful name and is the second planet from the Sun





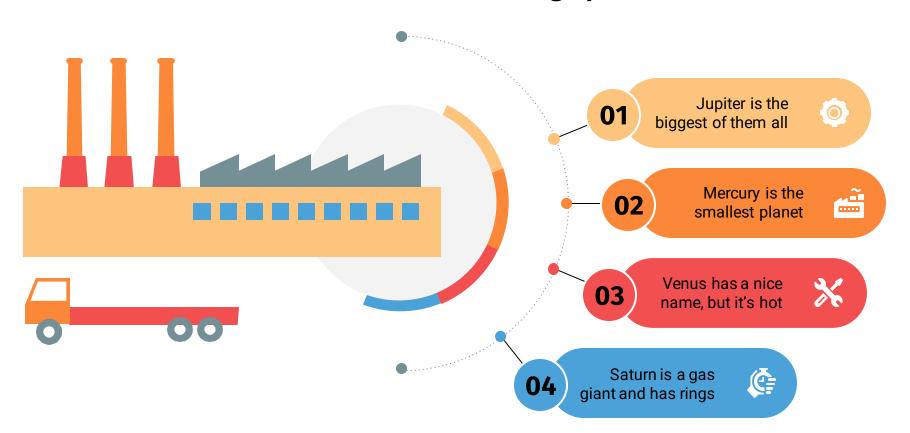


Mercury is the closest planet to the Sun and the smallest one



Jupiter is a gas giant and the biggest planet in the Solar System





Merci pour votre écoute!





Venus

Venus has a beautiful name and is the second planet from the Sun



Mercury

Mercury is the closest to the Sun and the smallest one in the System



Mars

Despite being red, it's a cold place, and is full of iron oxide dust



Jupiter

Jupiter is a gas giant and the biggest planet in the Solar System

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