## carroll

Create a working model of a small bank

DIcE Rubric	King model of a si	Hall ballk	
DICE KUDITC	1	Faculta understand Logical coguence. Clearly defined sections. Provides general	
	Design Plan (3%)	Easy to understand, Logical sequence, Clearly defined sections. Provides general	
		overview, etc.	
	Testing Plan (3%)	Provides detailed steps to repeat test. Appropriate coverage of code.	3%
	Don't at Markey	Does the writeup document challenges and surprises and lessons learned	370
	Project Writeup (3%)	encountered during the project?	3%
		5	5%
Documentation	Grammar/	Was the documentation free of grammatical and spelling errors and formatting	20/
(15%)	Spelling (3%)	inconsistencies?	3%
		Does the formatting of the code adhere to the common style as run through	
		pycodestyle?	
	Code Formatting	Are variables/functions named appropriately and enable code readability?	3%
	(3%)	Are doc strings (PEP257) and comments utilized?	
		Are classes/modules/files named appropriately and enable code readability?	
		Is a branch created to address each requirement or feature?	
	Version Control	Is the history free of generated/artifact files?	5%
	(5%)	Are commit messages informative?	5%
		Is the master branch free of direct work?	
		Are classes and inheritance used effectively for the problem at hand?	8%
		Was the code designed and constructed in a modular fashion?	4%
Implementation			
(35%)	Architecture (25%)		
		Were generally sound decisions made with regard to architecture?	9%
		Is the code SOLID & DRY?	4%
	Testing (5%)	Were comprehensive and robust test cases constructed to include but not limited	
	resting (570)	to the test cases provided in this document? Are all tests repeatable?	5%
		Does invalid input cause the program to crash?	5%
	Safety (10%)	Does invalid input cause the program to crash:  Does invalid input cause the program to act inappropriately?	5%
		Does invalid input cause the program to act mappropriately:	3%
	Boguiromorts		
	Requirements (15%)		
Execution(35%)	(13%)		
		Were all requirements met?	15%
		'	
		If multiple drones deployed to same map, they appropriately divide work	3%

## 76 Base Grade w/o Group

## 85 Final Grade with Group

## Deduction Reason

Nice inclusion of screen shots and descriptions of tests for GUIs

1 Tktinter instead of Tkinter

Doc string and type hint for Dashboard state it take a tkinter.Toplevel - when in reality it is taking a "root" Tk object passed by my code

use of tkinter. Misc as a datatype in line 19 of map.py is not documented anywhere - even in your docstring where you claim it is \_type\_

Type hinting has to be consistently all or none for readability - line 60 of overlord.py does not specify return type as most other methods do

your definition of \_\_eq\_\_ in tile.py uses () to allow multiple lines -which means you should have used a simple if else stamen - AND the method should return True or False - not NotImplemented as the method is indeed actually implemented by you

lines 177 to 187 never document or comment anything about the use of @overload in your code and why you are defining the same method 3 times with two of them that do nothing

Absolutely no explanation as to why \_\_repr\_\_was used instead of \_\_str\_\_ to return a string representation of the object - as that is what the \_\_str\_\_ is designed for. Not using the \_\_repr\_\_ in a nonstandard way without explaining why

get method on line 187 of map.py does not use type hinting while rest of surrounding code does

Your use of a datatype called "Context" in your action type hinting locks it into something it is not.

When I call your action it is impossible that I pass you a datatype that was never defined in the API that
was given to you. All you know is it is an object that contains 6 attributes

main.py at root of repo - is testing code and as such belongs in "test" even if it is not tdd. Also file is not pycodestyle compliant - but no points off this time for that part

Your Overlord has no health - though it is defined in Zerg's init - your code never calls it and has such has no \_health

(3) only 10 of available 5601 minerals were collected (.2%)

steps() counted was only 54% accurate (239/440)

(7) 9 unrecovered exceptions out of 9 runs

	Performance		20/	2	4 times drones deployed to summary of zero
	(10%)	Appropriate use of summary value in overall strategies	3%	3	15 times drone was deployed to map without highest summary first
	(10%)	Drones take appropriate risks based on health	3%		
		Other Performance Issues	1%	1	Running with 30K ticks crashes at about 16k
		Documentation	15	11	
		Implementation	35	29	
		Execution	35	22	
		Total Points Available	85	62	
			Total Deductions	23	
			Total Deductions	23	
	Area	Feature			
	Documentation	Write a man(1) page for your program.	2%	2	
	Documentation	Provide a UML Diagram for the classes in the project	2%		Not Implemented
	Documentation	Submit your writeup in Tex or LaTeX in addition to the already required pdf format	2%	2	•
		Use TDD to write as many tests as possible that can be run automatically. Put tests in a			
	Implementation	separate subdirectory of the project named <b>test.</b>	2%	1	9 tests - 4 Errors
	Execution	Employ the A* pathing algorithm	8%	0	Dijkstra's implemented - but not A*
Suggested					March 1 March
Features (15%)	Execution	Update the Dashboard with stats of each instantiated Drone and update info with each tick	4%	1	Not updated with each tick
		Enhance the map windows in the GUI to use more meaningful characters, colors, or images			
	Execution	rather than the "#~_*Z" characters to display the map	4%	4	
		Use the logging module from the Python standard library to log information about the drones			
		to a file located within the mining package .Some examples of information to log may be			
	Execution	information about the Drone when it is initialized or each time a drone dies.	4%	4	
				14	Points out of max 15 available for Features
			<b>Group Points</b>	2 9	

Group Point	Point	р	Grou
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	Requirement	Area
	The project must run on the class Virtual Machine.	Execution
Functional	Classes named Overlord, Drone, and Dashboard created as defined in project description	
Requirements	All types of Zerg possess health and an action	Execution
	Overlord must use proper three argument constructor.	Execution
	All Drones instantiated during instantiation of Overlord	Execution

	Requirement	Area
	Design plan, test procedure, and writeup documents must be submitted with the project.	Documentation
	Test Cases used must be submitted with the project.	
Requirements	All source code and documentation must be submitted to the class version control system by 23:59 on the due date specified.	
	Basic Drone has all three - health capacity and moves	Implementation
	Total of refined_minerals used by instantiated Drones does not exceed those available to Overlord	
	Dashboard displays title of each top level window and id of map it displays	Implementation

Constraint	Area
Make use of appropriate variable names.	Documentation
All documentation must be in PDF format.	Documentation
PEP-8 code style is required.	Documentation
Docstrings must be used appropriately.	Documentation
No third-party files/libraries may be used unless signed off by the Program Managers or Instructors.	Implementation
Each logical portion or feature must be built in its own branch.	Implementation
Merge (do not fast-forward) all commits to branch master and tag releases appropriately.	Implementation

	The default branch to clone should be master.	Implementation
	Code must be DRY when possible.	Implementation
Constraints	The project must be written in Python 3.	Implementation
Constraints	The project should be stored in your assigned VCS account, under the repository named <i>mining</i> .	Implementation
	The top level package for your project should be named <i>mining</i> .	Implementation
	All types of Zerg possess at least health of 1 and an action that takes a map context as a parameter	Implementation
	Drones cannot be repaired at any point in their lifetime	Implementation
	Overlord exposes proper add_map and action methods	Implementation
	Timeouts do not occur due to 1 second Overlord constraint and 1 millisecond Drone constraint	Implementation
	Overlord exposes public <i>drones</i> instance variable that is a dictionary.	Implementation
	Overlords action returns one of three required behaviors	Implementation