程序代寫試像低級編程辅导

General in

(Read carefully!)

Programming co

- You are provided some starter code that you should fill in as requested. Add your code only where you are instructed to do so. You can add some helper methods. Do not modify the code in any other way and in particular, do not change the methods or constructors that are already given when do not implifying the straightful format that you see on the provided code is the only format accepted for programming questions. Any failure to comply with these rules will result in an automatic 0.
- Public tests cases are available on ed-Lessons. You can run them on your code at any time. If your code fails those tests, it means that there is a mistake somewhere. Even if your code passes those tests, it may still contain some errors. We will grade your code with a more challenging, private set of test cost. We derefor highly Orlchurage you to modify that tester class, expand it and share it with other students on the discussion board. Do not include it in your submission.
- Your code should be properly commented and indented.
- Do not change or alter the name of the files you must submit, or the method headers in these files with the property of the files with the files you must submit, or the method headers in these files with the files you must submit, or the method headers in these files with the files you must submit, or the method headers in these files with the files you must submit, or the method headers in the files with the files you must submit, or the method headers in the files with the files you must submit, or the method headers in the files with the files you must submit, or the method headers in the files with the files you must submit, or the method headers in the files with the files you must submit, or the method headers in the files with the files you must submit and the files you are not changing file names by duplicating them. For example, main (2) java will not be graded.
- Do not add any package or import statement that is not already provided
- Please submit only the individual files requested.
- You will automatically get 0 if the files you submitted on ed-Lessons do not compile, since you can ensure yourself that they do. Note that public test cases do not cover every situation and your code may crash when tested on a method

that is not checked by the public tests. This is why you need to add your own test cases and compile and run your code from command line on linux.

程序代写代做 CS编程辅导

Homework

Exercise 1. Complete

Let's play a fun game two-dimensional board with some holes on it, where each hole can contain the game game, and in each turn, you will be allowed to jump (horizontally or viril the game) jacent ball into the empty hole next to the jumped ball in line with it. Once the game is to apply the minimum number of moves (i.e., jumps) to end in a state with a minimum number of balls.

Let's analyze one example to make sure that the game is clear. Figure 1 shows the initial state of the game, and a vegetice of a type (r.s., lipropartic exertical jumps over adjacent balls) that allows for a state (i.e., the last state) with the minimum number of balls in the board. In particular, we performed three moves to end with one ball on the board. Please notice that in this representation, "." (a period) denotes an empty hole, and "of small vowel or a ball, and "#" (number sign) indicates a part of the board without a hole. For this question, yet can safely assume that all the boards have always the same shape.

Initial State									F	Emanderer @MGR com													Move#3															
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For this question, your task is to develop an algorithm (i.e., a complete search one) that determines the minimum number of balls that remains in the minimum number of moves required to reach that number of balls. You will need to submit your A2_Q1.java source file to the Assignment 2 => Q1 - Complete Search lesson in Ed-Lessons. Please complete the function game which receive a 2-D array of Strings representing a board (as the one shown in Figure 1). The function game must return an array of integers (int[]) of two positions, where the first position (i.e., index 0) reports the minimum number of balls that remains in the board and the second position (i.e., index 1) reports the minimum number of moves performed to reach that number of balls.

Exercise 2. Dynamic Programming

Dr. Robert Bruce Banner (yes, go and google the name in case you do not know who I am talking about :p) contacted me in order to help him with his weight training program. In particular, he is interested in creating a (training) program that will allow him to lift 1000kg. Dr Banner has several (positive integers less or equal than 1000) weight plates, possibly of different weights,

and its goal is to add some of the plates to a bar so that it can train with a weight as close as possible to 1000kg. Given the (possible) case where two numbers are equally close to 1000 (e.g., 995 and 1005), Dr Banner will find the greater under this case 1005.

Let's see an example to make sure that the question is clear. Imagine that Dr Banner has 4 plates with the following weights [900, 500, 498, 4], then your program must return as answer 1002, because this is the place to 1000kg. In particular, the combined weight is composed by the three combination (i.e., 998) and 98 + 4 = 1002). In this example, you can find another second and third plates are also as the answer given that Dr Banner will pige the process of the two equally close solutions.

Dr Banner will place the two equally close solutions.

Dr Banner is an expectation of the list is really good in Dynamic Programming; however, he would be busy in a triple of the list is parameter a list of positive integers (where each integer is less than or equal than 1000), denoting the weight of camplate. For this question, you will need to complete the function weight, which receives a parameter a list of positive integers (where each integer is less than or equal than 1000), denoting the weight of camplate. For this parameter a list of positive integers, the combined weight closest to 1000.

HINT: Please code and group property in youth retwarm reals panner mad: P

Email: tutorcs@163.com

Exercise 3. Greedy

In this exercise, you will plan your hopework with a greedy algorithm. The input is a list of homeworks defined by two arrays: deadlines and weights the relative importance of the homework towards your final grade). These arrays have the same size and they contain integers between 1 and 100. The index of each entry in the arrays represents a single homework, for example, Homework 2 is defined as a homework read in the carrier plant in the grade of the S2 and weights [2]. Each homework takes exactly one hour to complete.

Your task is to output a homeworkPlan: an array of length equal to the last deadline. Each entry in the array represents a one-hour timeslot, starting at 0 and ending at 'last deadline - 1'. For each time slot, homeworkPlan indicates the homework which you plan to do during that slot. You can only complete a single homework in one 1-hour slot. The homeworks are due at the beginning of a time slot, in other words if an assignment's deadline is x, then the last time slot when you can do it is x - 1. For example, if the homework is due at t=14, then you can complete it before or during the slot t=13. If your solution plans to do Homework 2 first, then you should have homeworkPlan[0]=2 in the output. Note that sometimes you will be given too much homework to complete in time, and that is okay.

Your homework plan should maximize the sum of the weights of completed assignments (regardless of the order on which they are completed). Please notice that an "-1" value is allowed in between the homework plan.

Let's see an example to make sure that the task is clear. Imagine the following deadlines and weights.

```
int[] weights = new int[] {23, 60, 14, 25, 7};
int[] deadlines = new int[] {3, 1, 2, 1, 3};
```

where homework 0 has a weight of 23 and a deadline of 3, homework 1 has a weight of 60 and a deadline of 1, and so on so on. Then, the solution of your algorithm is an array of length equal to the last deadline (in the case 3) in particular, the solution will be solution with a second day you will do homework 1 (with a weight of 60), second day you will do homework 2 (with a weight of 14) and third day you will do homework 0 (with a weight o 23). Please notice that this array maximize the sum array maximize the sum completed assignments. Notice that you did not do assignment 4 [even if it because its deadline is 1 and you made the decision to do assignment 1 [which will be a solution of your algorithm is an array of length equal to the last deadline of 3, homework 1 has a weight of 60 and a second deadline of 1, and array of length equal to the last deadline (in the case 3) in particular, the solution will be solution with a weight of 23 and a deadline of 3, homework 1 has a weight of 60 and a second deadline is 1 and you will do homework 2 (with a weight of 24).

To organize your so the a class HW_Sched.java, which defines an Assignment object, with a number that the true array), a weight and a deadline.

- 0, if the two items are equivalent
- 1, if all should appears significant all stroject Exam Help
- -1, if a2 should appear after a1 in the sorted list

The compare method called a collection is considered to the compare method organize lists and arrays in this problem. You will then implement the rest of the SelectAssignments() method.

Exercise 4. Divide and Cinque 49389476

During our Comp251 lectures, we defined the Fibonacci sequence as follows:

 $fib_1 = 1$ $fib_2 = 2$ $fib_n = fib_{n-2} + fib_{n-1}$ https://tutorcs.com

Generating the following sequence 1, 1, 2, 3, 5, 8, 13, 21...

We can also define the Fibonacci sequence using letters. For example, if:

 $\begin{aligned} fib_1 &= X \\ fib_2 &= Y \\ fib_n &= fib_{n-2} + fib_{n-1} \end{aligned}$

For this question, you will need to implement a divide and conquer algorithm than given N and K as parameters, your function returns the K-th letter in the N-th string in the fibonacci sequence. For example, if N=7 and K=7, your algorithm must return X (please notice that the N=7 string in the sequence is "XYYXYYXYYXYYXY", and the K=7 letter in that string is "X", which is bold). You can safely assume that K is at most the length of the N^{th} string

HINT 1: Please check if there is a relation between the two sequences shown in this question

HINT 2: The integers could be very big then please use BIGINTEGERS

HINT 3: Please do not gen try to cate the trings Shipp forch are rever succeed

What To Sub

Attached to this assign
DO NOT zip (or rar) y

ate files. You have to submit only this java files. Please t submit any other files.

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