

BREEDING AND SEED PRODUCTION OF THE GIANT FRESHWATER PRAWN

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How to breed giant freshwater prawns? The typical male to female ratio in broodstock holding systems is 1-2 BC males or 2-3 OC males per 20 females, at a total stocking density of 1 prawn per 40 litres. Within a few hours of copulation, fertilisation occurs externally, as the eggs are transferred to the brood chamber beneath the abdomen.

Can you farm freshwater prawns? *Macrobrachium rosenbergii* are tropical crustaceans native to Malaysia. They are commercially harvested from the wild and have been introduced to every continent, except Antarctica, for the purpose of commercial farming. In the US, freshwater prawn are commercially farmed in the Midwest, the South, and Hawaii.

Where does the giant freshwater prawn come from? *Macrobrachium rosenbergii*, known as the Giant River Prawn, is a large catadromous shrimp native to coastal rivers and estuaries from Sri Lanka to Indonesia (Java and Borneo) and north to southern China.

What is the growth rate of giant freshwater prawns? The average absolute growth rate of 0.140 g/day and specific growth rate of 1.55% was achieved during the experimental period.

What is the survival rate of giant freshwater prawns? The survival rate of giant freshwater prawns is low enough. An average survival rate is only 12%- 37% [3].

Is it hard to breed freshwater shrimp? It is actually fairly simple to breed Red Cherry Shrimp in the home aquarium if one pays attention to three major steps: 1)

Inducing breeding, 2) Ensuring health and comfort while carrying the eggs, and 3) Raising the young. Inducing breeding can be done by keeping the water conditions stable.

Are prawns easy to farm? Since Prawns are hardy and easy to grow, they will make a unique addition to your aquaponics system, increasing its efficiency along the way. Freshwater Prawns consume detritus, thereby helping to break down and convert organic matter into material that can be used by plants.

How to start prawn farming?

How long does it take freshwater prawn to grow? In areas of temperate climate such as Missouri, production of freshwater prawns involves stocking juveniles into ponds, followed by a four- to five-month period of grow-out, until they are ready for harvest.

What are the benefits of giant freshwater prawns?

What is the largest giant freshwater prawn?

What is the difference between a prawn and a giant shrimp? The Differences Between Prawns and Shrimp Prawns tend to be larger than shrimp, and often taste sweeter. There are more varieties of shrimp, too. Both animals have 10 legs, but prawns have pincers on three pairs of legs, while shrimp just have one clawed duo.

How much do giant prawns cost? 1 x whole, raw giant prawn- Average raw weight 220 – 350g (£12.50-£17.50) each however these can range from £11 – £19 per piece depending on size! Please leave a note of how many people to feed and whether main or starter portion if you're unsure, or give us a call to confirm sizing.

What is the feeding habit of giant freshwater prawns? In the absence of live food they are capable of feeding on small particles of organic matter (Ling, 1969; New and Singholka, 1985). Post larvae and adult *M. rosenbergii* are omnivorous benthivores, and mainly feed on algae, aquatic plants, mollusks, oligochates, aquatic insects and other crustaceans (Ling, 1969).

How fast do prawns breed? Breeding. Females generally become reproductively mature within 6 months. Mating can occur only between hard-shelled males and soft-

shelled females, i.e., females who have just completed a premating or prenuptial molt.

How do you breed giant tiger prawns? Unlike many aquatic invertebrates, tiger prawns reproduce via internal fertilization. After mating, females release hundreds of thousands of fertilized eggs, which quickly hatch.

How to make prawns breed? Once a female and male are sexual mature (4-6 months old) and the above-mentioned requirements are met, they will breed. Breeding occurs right after a female molts. She will then hide and release pheromones and the male will find her and breed with her.

How fast do prawns breed? Breeding. Females generally become reproductively mature within 6 months. Mating can occur only between hard-shelled males and soft-shelled females, i.e., females who have just completed a premating or prenuptial molt.

How fast do freshwater shrimp reproduce? The breeding time for shrimp can vary depending on the species and environmental conditions. On average, it can take anywhere from a few weeks to several months for shrimp to breed. The specific time it takes can depend on factors such as temperature, water quality, and the age and health of the shrimp.

Separation Process Engineering Wankat 3rd Edition Solutions

Question 1: Explain the concept of equilibrium in separation processes.

Answer: Equilibrium occurs when there is no net change in the composition of a system. In separation processes, equilibrium is reached when the chemical potential of a component is the same in all phases present.

Question 2: Describe the different types of separation processes.

Answer: Separation processes can be classified into three main types: mechanical, thermal, and chemical. Mechanical processes involve separating substances based on their physical properties, such as size, density, or solubility. Thermal processes involve separating substances based on their boiling points or freezing points. Chemical processes involve separating substances based on their chemical

properties, such as reactivity or acidity.

Question 3: What are the factors that affect the design of a separation process?

Answer: The design of a separation process depends on several factors, including the desired separation efficiency, the properties of the substances being separated, the available equipment, and the economic feasibility of the process.

Question 4: Discuss the challenges in designing separation processes for complex mixtures.

Answer: Complex mixtures present challenges in separation processes because they contain multiple components with similar properties. This can result in reduced separation efficiency and increased energy consumption. To overcome these challenges, advanced separation techniques, such as multi-stage processes or the use of selective membranes, may be required.

Question 5: Provide examples of applications of separation process engineering in industry.

Answer: Separation process engineering finds wide application in various industries, including:

- **Chemical industry:** Separation of products from reaction mixtures
- **Petrochemical industry:** Separation of different hydrocarbon components
- **Pharmaceutical industry:** Purification of drugs
- **Food and beverage industry:** Separation of solids from liquids, clarification, and concentration
- **Environmental industry:** Water and wastewater treatment, air pollution control

Synthetic Resins Technology: A Focus on Alkyd Resins

Question 1: What are alkyd resins?

Alkyd resins are synthetic polymers derived from the condensation reaction between polyols (such as glycerol or pentaerythritol) and polybasic acids (such as phthalic anhydride or maleic anhydride). They combine the properties of both oils and resins,

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making them versatile materials with a wide range of applications.

Question 2: What are the key characteristics of alkyd resins?

Alkyd resins offer excellent durability, adhesion, flexibility, and resistance to moisture and chemicals. They have good drying properties, making them suitable for a variety of coating applications. The composition and proportions of the starting materials can be adjusted to tailor the resin's properties for specific uses.

Question 3: What are the different types of alkyd resins?

Alkyd resins can be classified based on the oil length:

- Short-oil alkyds: These resins have a high acid content and a low oil content. They are hard, have a high gloss, and provide good adhesion.
- Medium-oil alkyds: These resins have a balanced composition and offer a compromise between durability and flexibility.
- Long-oil alkyds: These resins have a high oil content and a low acid content. They are flexible, have a low gloss, and exhibit good water resistance.

Question 4: What are the applications of alkyd resins?

Alkyd resins are widely used in the coatings industry for a variety of applications:

- Architectural paints: Alkyds are commonly used as binders in interior and exterior paints due to their durability and resistance to wear.
- Industrial coatings: Alkyd-based coatings are employed in industrial settings due to their resistance to chemicals and corrosion.
- Automotive finishes: Alkyd resins are used in primers and topcoats for automobiles to provide protection and a glossy appearance.
- Oil and gas industry: Alkyd coatings are used in pipelines and storage tanks to protect against corrosion.

Question 5: What is the future of alkyd resin technology?

While alkyd resins have been used for decades, advancements in synthetic resin technology continue to improve their properties. Future developments include the

development of environmentally friendly alkyd resins, waterborne alkyds with improved drying times, and alkyds with enhanced resistance to UV radiation and weathering.

What is algorithm pseudo code in C? What Is Pseudo-Code in C? The pseudocode in C is an informal way of writing a program for better human understanding. It is written in simple English, making the complex program easier to understand. Pseudocode cannot be compiled or interpreted.

What does pseudocode offer in algorithm development? Pseudocode is a readable description of a program or algorithm that uses everyday language rather than a specific programming language. It serves as a high-level design tool, enabling developers to conceptualize algorithms and processes without getting bogged down in syntax.

What is algorithm pseudo code for expressing algorithms? A Pseudocode is a step-by-step description of an algorithm in code like structure using plain English text. A Flowchart uses standard symbols for input, output decisions and start stop statements. Only uses different shapes like box, circle and arrow. Pseudocode uses reserved keywords like if-else, for, while, etc.

What is an example of a pseudo algorithm? An example of well-written pseudocode would be the following lines which compute the area of a triangle: Enter base length, B | Enter height, H | Calculate the area = $1/2 * B * H$ | Display area.

What is the difference between algorithm and pseudocode? Algorithms are set of instructions to solve the problem, while pseudocode is a rough sketch to organize and understand a program before it is written in codes. The key difference between algorithms and pseudocode is that algorithms are more specific, while pseudocodes are more general.

How to make a pseudocode algorithm?

What are the benefits of writing algorithms in pseudocode? it can be quickly and easily converted into an actual programming language as it is similar to a programming language. it is fairly easy to understand, even for non-programmers. it does not matter if there are errors in the syntax - it is usually still obvious what is

intended.

What is the main purpose of pseudocode? The purpose of using pseudocode is an efficient key principle of an algorithm. It is used in planning an algorithm with sketching out the structure of the program before the actual coding takes place.

What is an algorithm in C? An algorithm is a step-by-step procedure to solve a given problem. In the context of computer science, particularly with the C programming language, an algorithm is used to create a solution that computers can understand and execute.

Is pseudo code similar to algorithm? Algorithms give us clear steps to solve a problem, while pseudocode is like a rough draft that helps us plan before writing actual code. Knowing this helps us be better programmers.

What are three examples of algorithms?

What is pseudocode in C programming? Pseudocode is a simple way to write code that is not meant to be run on a computer. It uses basic English words & phrases to describe what a program should do. Pseudocode helps programmers plan out their code before writing it in a specific programming language like C.

What is the difference between pseudocode and flowchart? Flowchart is graphical. Pseudocode is not. Pseudocode is the process where the language will be translated into software codes. The flowchart, on the other hand, will show the process that needs to be followed with shapes and colors to make the data flow of the program easier to understand.

How to solve pseudo code problems?

What is the best explanation of pseudocode? Pseudocode is a representation of code used to demonstrate the implementation of an algorithm without actually doing so.

What are the advantages and disadvantages of using a pseudo code?

Is pseudocode just Python? Python is a general purpose programming language however pseudocode is not a programming language, it is a plain english for

understanding the algorithm.

What is algorithm in C code? An algorithm is a step-by-step procedure to solve a given problem. In the context of computer science, particularly with the C programming language, an algorithm is used to create a solution that computers can understand and execute.

How do you find the pseudocode of an algorithm? Writing an algorithm is done on its own line in sequence. Generally, uppercase is used for writing the instructions and lowercase is used for writing the variables and the messages are written in sentence case. In pseudocode, the question is asked in INPUT and the message is printed by the OUTPUT.

What is pseudocode in code? Pseudocode is a representation of code used to demonstrate the implementation of an algorithm without actually doing so. It often acts as a rough draft of coding projects, and is written in an explainable manner to be understandable by programmers at any knowledge level.

What is a pseudo random number generator algorithm in C? A pseudo-random number generator is an algorithm which produces a sequence of numbers whose properties approximate the properties of sequences of random numbers. The C language provides such a generator in its library. The function rand() is declared in the header file stdlib.

What are the three algorithm constructs in C? There are three basic constructs in an algorithm: Linear Sequence: is progression of tasks or statements that follow one after the other. Conditional: IF-THEN-ELSE is decision that is made between two course of actions. Loop: WHILE and FOR are sequences of statements that are repeated a number of times.

What is algorithmic thinking in C? Algorithmic thinking is a derivative of computer science and the process to develop code and program applications. This approach automates the problem-solving process by creating a series of systematic, logical steps that intake a defined set of inputs and produce a defined set of outputs based on these.

What are the basics of algorithms? An algorithm is a procedure used for solving a problem or performing a computation. Algorithms act as an exact list of instructions that conduct specified actions step by step in either hardware- or software-based routines.

What are the 5 rules of pseudocode?

How to write a pseudo code in C?

Can you write an algorithm in pseudocode? Writing in pseudocode is similar to writing in a programming language. Each step of the algorithm is written on a line of its own in sequence. Usually, instructions are written in uppercase, variables.

What is an example of a good pseudocode? For example, "if input is odd, output 'Y'" might become "if user enters an odd number, display 'Y'". Keep your pseudocode in the proper order. While the language you use to modify your pseudocode should be simple, you still need to keep each piece of your pseudocode in the order in which it needs to be executed.

What is the first step in solving an algorithm problem? Step 1: Obtain a description of the problem. Step 2: Analyze the problem. Step 3: Develop a high-level algorithm. Step 4: Refine the algorithm by adding more detail.

What are three examples of algorithms?

What is a pseudo code for expressing algorithms? Pseudocode is a way of expressing an algorithm without conforming to specific syntax rules. By learning to read and write pseudocode, you can easily communicate ideas and concepts to other programmers, even though they may be using completely different languages.

How do you write random in pseudocode? Random Number Generator (Pseudocode) RANDOM(Integer1 : INTEGER, Integer2 : INTEGER) RETURNS INTEGER generates a random integer in the range from Integer1 to Integer2 inclusive.

How to generate random in C? C does not have an inbuilt function for generating a number in the range, but it does have rand function which generates a random number from 0 to RAND_MAX. With the help of rand (), a number in the range can

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be generated using the modulo operator. Use rand() to generate a random number rd_num.

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