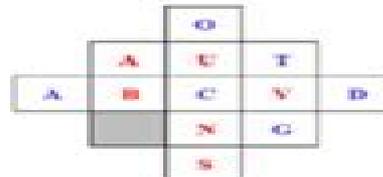1. Answer the below question for the given scenarios.

   "A forest fire has broken out in a remote area, posing a threat to human lives and wildlife. Emergency response teams have deployed a rescue agent to assist in the rescue operations. The rescue agent analyzes the sensor data to assess the severity of the fire, identify areas of high heat intensity, and locate trapped or stranded individuals. The thermal cameras on the rescue agent help detect human presence in areas affected by smoke or low visibility. By analyzing the thermal signatures, the agent can pinpoint the location of individuals, even in challenging conditions. Using GPS data and mapping algorithms, the rescue agent plans the safest and most efficient routes for rescue teams to reach affected areas."

   (i) Provide the complete problem formulation.
   (ii) Provide the PEAS description.
   (iii) Identify the various dimensions of the task environment with appropriate justification for each in no more than 30 words

2.

   Consider a 2-player WORD FORMATION game as in below diagram. The game board consists of colored letters (RED and BLUE) and an empty space [Tile shaded in gray – Empty Space/Tile]. The player 1 aims to form any one of the following words in the board "BUS" or VAN", to win. The player 2 aims to form any one of the following words in the board "CAT" or "DOG", for winning. Assume the player 1 starts the move from the below initial state. In the game, player1 and player 2 alternate their turn.   [3+2+4 = 9 Marks]

   The puzzle has two legal moves: which results in the swap of position of the tile with the empty location

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28 29 August 2021 The respective contributions offer practitioners and researchers a range of new computational techniques and solutions identify emerging issues and outline future research directions while also showing them how to apply the latest large scale high performance computational methods *Theory and Practice of Computation* Shin-ya Nishizaki,Masayuki Numao,Jaime Caro,Merlin Teodosia Suarez,2013-06-01 This book comprises the refereed proceedings of the Workshop on Computation Theory and Practice WCTP 2012 held in Manila The Philippines in September 2012 The workshop was organized by the Tokyo Institute of Technology the Institute of Scientific and Industrial Research Osaka University the University of the Philippines Diliman and De La Salle University Manila and was devoted to theoretical and practical approaches to computation The 22 revised full papers presented in this volume were carefully reviewed They deal with biologically inspired computational modeling programming language theory advanced studies in networking and empathic computing *Genetic Algorithms + Data Structures = Evolution Programs* Zbigniew Michalewicz,2013-03-09 Genetic algorithms are founded upon the principle of evolution i e survival of the fittest Hence evolution programming techniques based on genetic algorithms are applicable to many hard optimization problems such as optimization of functions with linear and nonlinear constraints the traveling salesman problem and problems of scheduling partitioning and control The importance of these techniques has been growing in the last decade since evolution programs are parallel in nature and parallelism is one of the most promising directions in computer science The book is self contained and the only prerequisite is basic undergraduate mathematics It is aimed at researchers practitioners and graduate students in computer science and artificial intelligence operations research and engineering This second edition includes several new sections and many references to recent developments A simple example of genetic code and an index are also added Writing an evolution program for a given problem should be an enjoyable experience this book may serve as a guide to this task

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   - The Rise of Digital Reading Genetic Algorithm Questions And Answer Pdf Download
   - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Algorithm Questions And Answer Pdf Download
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Genetic Algorithm Questions And Answer Pdf Download
   - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Algorithm Questions And Answer Pdf Download
   - Personalized Recommendations

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