1. Compassion of greedy Method and dynamic Programming

Greedy Algorithm is an algorithmic Paradign that builds up a solution Piece by Piece, always choosing the next Piece that Offers the most obvious and interimided behefit. So the Problems where choosing locally optimal also leads to a glotal Solution are book file for corredy. For example Corsidor the Factional Knapsack Problem. The local optimal stralegy is to choose the Hem that has maximum value vs weight ratio. This standays to tochoose the dem that has in This Strategy also leads to global optimal solution because we allowed taking Fooders of an Hern Panamic Programming is mainly an optimized ion over pla in secusion

whenever we see a recursiones olution that has repeated calls for the same is puts, We can ontimize it wing Dynamic Programming. The idea is to symply store the results of Sub Motoblems Sothad we do not have to recompute them when needed later. This Simple Ophtimization reducestinge Complexities from exponential to Polinomial. For example, it we write a simple recurssive solution Fos Fibanocci Numbers Loe get exponential time complexity. and if we optimize it by stooms solutions OF sub proof lems, time complexity reduces to linears.

2. Real woodd Applications of Gosting:

Merge Sost: Databases use an external merge Sost to sost sets or olata that crose tobe loaded entirely into memory. The driving factor in this sost is the teduction in the number of disk Yos

Bubble Sood: Bubble Soot is used in Programming
TV remote to soot channels on the
basis of longer Viewing time.

Heap Sost! It is used in sending borroades on plastic corods. The service allows to communicate with the data base to Gonstantly run checks to ensure that they were all still online and had to constantly report Statistics on which readers were performing the worst, which ones god the most/less user activity, etc.

Quick Sost : Shoots scores are observed by quick sort on the basis of win-loss rection Radia Sost : eBay allows to sort listings by the Current Bid amount loveraging sadice Selection Soft: K12 education Postal allows softing list of Pupils alphabetically through setection soit. inicondo as a desalderatado esta telastas bed of good single police with so more and planted out the time of nothing. constant descriptions to the performance all ason to of at products in the loss of all Eligisted of morning of soil and Indolp of about odne where of a wind willy months were amand mortilating is a discontinuous some and was to an order