A company X is conducting a survey for the research purposes.For this the developers created a form defining it’s basic structure as-

It will have 3 models – Survey, Query, Response. Attributes of models are defined as –

1. Feedback won't have extra attributes.

2. Query will have multiple question attributes, which is going to be the question by the company.

3.Answer will have areplies from the audience.

Which of the following options describe the best possible relation between these models-

Survey – has\_many:answer

Query- has\_many:answer

Answer- belongs\_to:questions, belongs\_to:survey

Here Survey will have many answers by various users thus it will have has\_many:answers.

Question will have many answers therefore it will have has\_many

And at last as explained in answer statement answer will help in backtracking to the related query and survey id the answer belongs to survey and query.

Consider an array – [20,30,17,23,40,29,30,43]

Following operation is performed on array. Max heap is created from this array.

Find the no. of max heap operations applied until array array looks like-[20,43,30,30,40,27,29,23] .

For c=1 -- [20,30,17,23,40,29,30,43]

For c=2 -- [20,30,17,43,40,29,30,23]

For c=3 -- [20,30,30,43,40,29,17,23]

For c=4 -- [20,43,30,30,40,29,17,23]

Solve the recurrence equation-

T(n)= T(n/3)+T(n/4)+n\*n ;

At level 0 – n\*n

At level 1 – ((1/3)\*(1/3) + (1/4)\*(1/4)) n\*n=(25/144)n\*n

At level 2 – ((1/9)\*(1/9)+ (1/12)\*(1/12)+(1/12)\*(1/12)+(1/16)\*(1/16))=(625/144\*144)=(25/144)\*(25/144)n\*n

T(n)<= Σ(0-infinity) (25/144)n\*n = 1/(1-25/144)=(144/119)n\*n

Data Structures and Algorithms Made Easy: Data Structures and Algorithmic Puzzles - Narasimha Karumanchi

Which of the following HTTP response code indicates that request was a success

Which of the following HTTP requests are idempotent ?