***ADVAYA  
(The intra-institute technical festival of IIT Hyderabad)***

***Presents***

**Celestial Inquisition 2**

**Hello guys, we at Cepheid, the astronomy and astrophysics club of IITH, present before you, ‘CELESTIAL INQUISITION’ as part of Advaya.**

**The round 2 of CELESTIAL INQUISITION starts from this question .**

**In the second round, there will be problem sets with points to each set based on difficulty . The participant with the most points after all the sets wins the grand prize.**

**You are free to refer books, use the internet or any other source of information for answering the questions.**

**CELESTIAL INQUISITION-2**

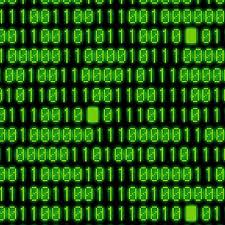
X is a  lies in a(p1)

And is suspected to be a

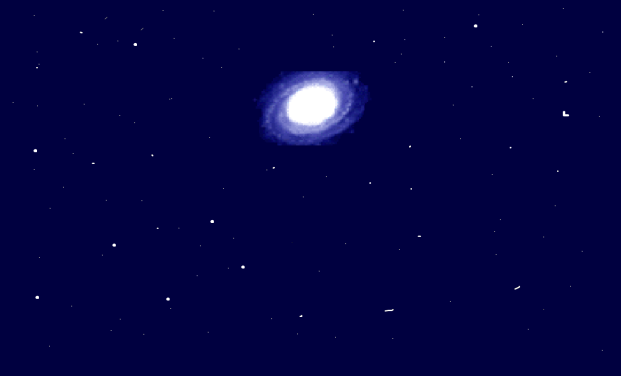
 of Y which is a  galaxy

And is referred to as (p2). Z is of same type as Y .

Y and Z are in list of “ objects to avoid” made by p(3) .

A is  star in  and in a galaxy B .

Now lets look few billion years ahead from now -

the night sky may look like  (p4) .

the event in the night sky relates B and Z .

What are X , Y ,Z ,A ,B ? and what do p1 , p2 ,p3,p4 indicate?

This Question carries 20 points . 2 points for each correct answer ,except p4 . p4 carries 4 points .

**Please mail your solutions to**  [me10b013@iith.ac.in](mailto:me10b013@iith.ac.in) **or** [me09b023@iith.ac.in](mailto:me09b023@iith.ac.in) **before 11.59 pm on** **17-09-2011 .Late entries will not be entertained .**  For any queries, contact:

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