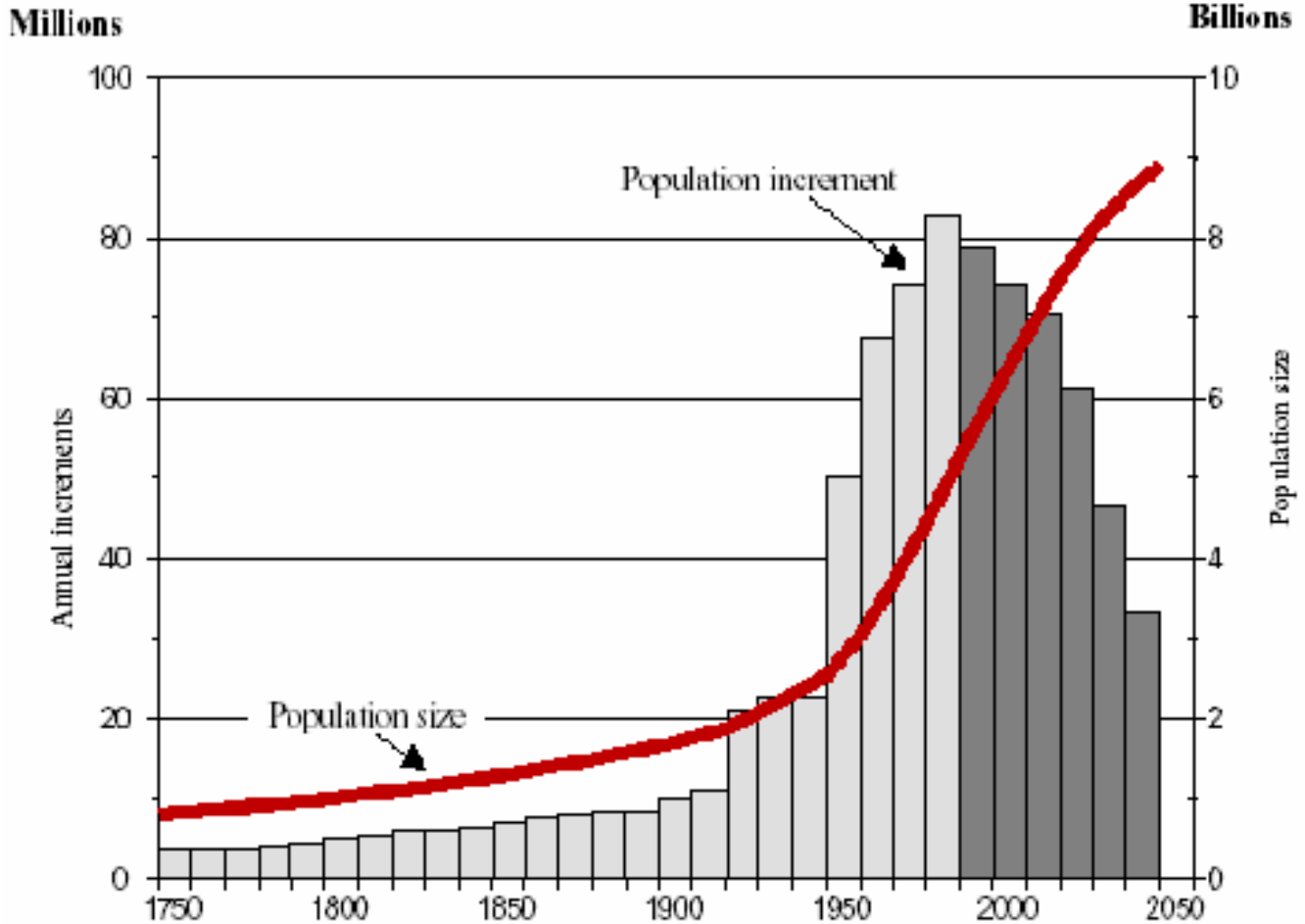


1. The following figure is from the United Nations Population Division published in 1999. All darkly shaded bars are **predicted**, not actual, assuming that the world will proactively try to reduce its population. What do you think they predict the population of the world will be in 2050?

Figure 2. Long-term world population growth, 1750 to 2050



Source: United Nations Population Division.  
<http://www.unfpa.org>

2. Mark on the graph when changes its concavity.
3. In which years is the graph concave up?  
When is the above graph concave down?  
Explain how the heights of the bars are related to the concavity of the graph.
4. Read attached Minneapolis –St. Paul Star Tribune editorial. Do you agree or disagree with who is to blame? Explain in a paragraph on a separate sheet.