You have resigned from your job as a script editor in Hollywood and, most logically, you have moved to Washington, D.C. where you have been hired as an aide to Senator Wisdom, of Prairie State. The Senator is a member of several important Committees, including that of Science and Technology. The Senator is very smart (Cornell B.A. in Government, graduate studies at the London School of Economics and a Fellow at the Bocconi University of Milan, frequent contributor of op-ed pieces to the New York Times) but also demanding and, you'll learn, easy to flatter. Your Cornell background (Astro 201), experience in writing effective memos on science and the lies you told the Senator about the unforgettably good times you had in Prairie State during the Summer of ’03 got you the new job.

Another member of the Science and Technology Committee is Lleyton Owen Burton (nicknamed "Lobby") Dolittle, the junior Senator of a state neighboring Senator Wisdom’s own Prairie State. One of Sen. Dolittle's more generous supporters is the owner of the largest chain of funeral services of his state, Dedham Bury (who’s locally known as ‘Slick the Mortician’); he is also an activist for numerous causes such as those which would have the state's legislature declare \( \pi \) an integer number and Earth the center of the Universe.

Mr. Dedham Bury’s local aluminum coffin provider has recently branched out into constructing radio dishes and is dreaming of obtaining a large government contract to build an array of radio telescopes in space. This array would consist of 50,000 dishes of 5 m in diameter each. Given the quality of his manufacturing procedures, those dishes would weigh one ton each and could only work at wavelengths of between 10 cm and 1 m. Sen. Dolittle has arranged for Mr. Dedham Bury’s friend to present his project at the S&T Committee.

The good Sen. Wisdom must prepare for a Q & A session on the matter. You are asked to provide the Senator with a one-page (350 words or less) memo summarizing the pros and cons of the idea of such an array of space telescopes.