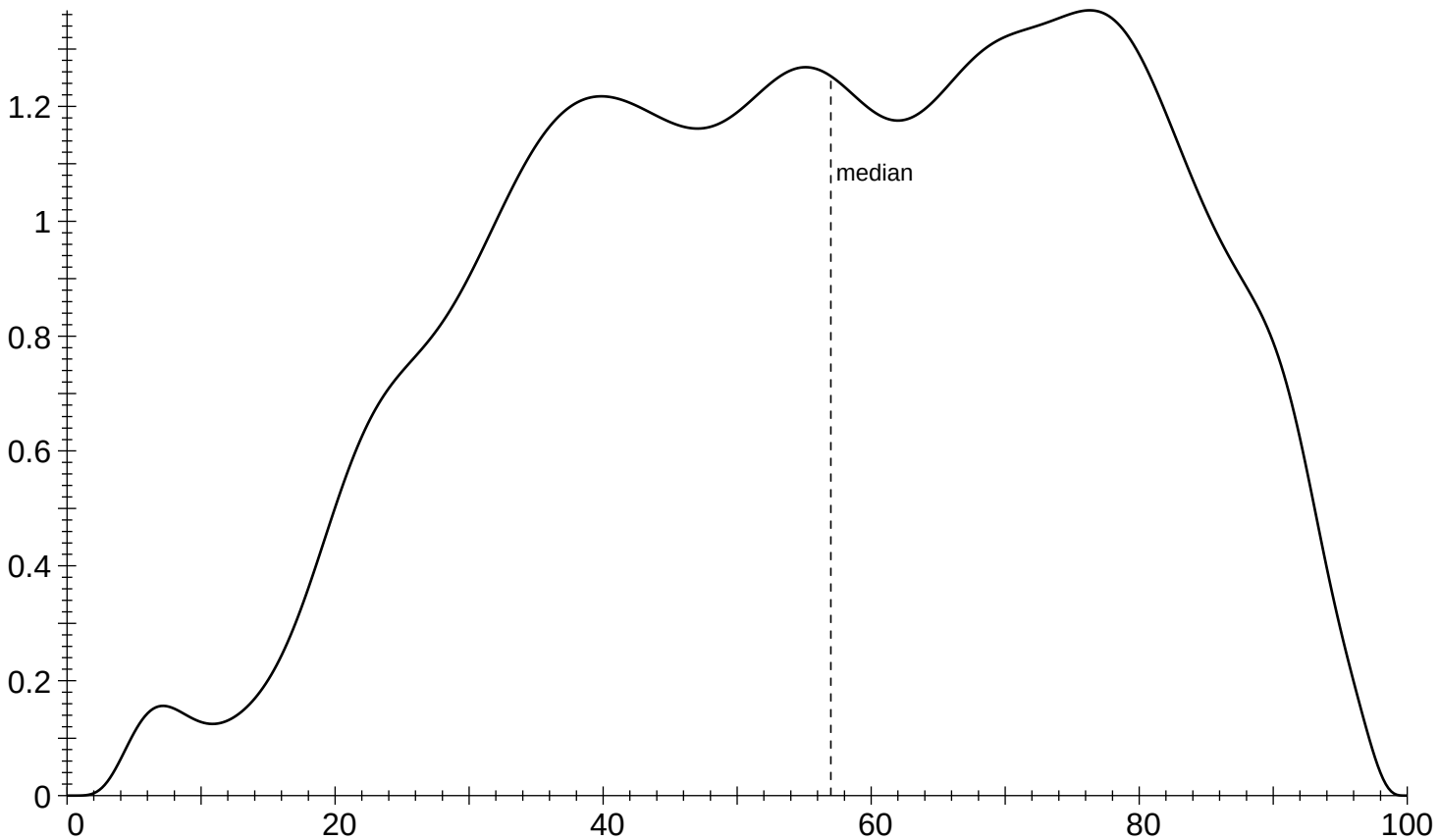CS312 Prelim 2