

1. Give an example of hypothesis testing from your life experience. State clearly null and alternative hypothesis, explain how decision was made. Describe possible type I and type II errors in case of incorrect decisions. What decision was made? Did you face any of type I, II errors?
2. Give an example of hypothesis testing from your favorite movie or book. State clearly null and alternative hypothesis, explain how decision was made. Describe possible type I and type II errors in case of incorrect decisions. What decision was made? Did a character face any of type I, II errors?
3. When we test a hypothesis, we should always keep in mind possibility of incorrect decisions (false reject or missed reject). Sometimes false reject has worse consequences, sometimes missed reject does. Give couple examples when this happens. State clearly null and alternative hypothesis, explain how decision is made. Describe possible type I and type II errors and their possible consequences, give some reasoning of which consequence is worse, for whom and why.