





- Historically, measurements of software development were not done, so we did not gather any data from past experiences to use in predicting the schedules and costs of future projects.
- Customer needs were usually understood only vaguely. Consequently, programs often fell short of the customers' desires.
- A solid quantification of the metrics associated with the software does not exist, so it becomes difficult to predict software quality.
- Maintenance has become the most expensive, difficult, and poorly planned task of the entire software life cycle.

Software Engineering

Causes

- No spare parts to replace, so an error in the original software is also in every copy.
- Software quality is a human problem.
- Project managers often have no software development experience.
- Software developers often have little or no formal training in engineering the development of the software product.
- Resistance to change from programming as an art to programming as an engineering task can be significant.

1B - 4







