**Critical path in graphs**

A picture containing chart

Description automatically generated

Imagine multiple people working on multiple tasks at the same time. They all want to go to a football game at a certain point, but their different tasks take different time. Therefore, the people that finish their task first, must wait until the people with the more time-consuming task finishes before they can go watch the football game together. This is therefore the earliest point in time, of which they can go together and do something – and at the same time the longest path (the heaviest path we can take). We can use this longest path(or critical path) to analyze how we can split up the work between people and go watch football together earlier.

**TODO MERE GUF**