

# AADL (Final Assignment)

## Bridge crossing puzzle

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### **Assignment description**

Four men have to cross a bridge at night. Any party who crosses, either one or two men, must carry the flashlight with them. The flashlight must be walked back and forth; it cannot be thrown, etc. Each man walks at a different speed. One takes 1 minute to cross, another 2 minutes, another 5, and the last 10 minutes. If two men cross together, they must walk at the slower man's pace. There are no tricks--the men all start on the same side, the flashlight cannot shine a long distance, no one can be carried, etc.

Write a program to find a solution for that problem **Input:**

number of men and the speed for everyone.

**Output:** Best time and the order of moving.

### **Notes:**

- 1- **Team working:** two students together.
- 2- Estimated time is 14 days.