



Elves at work



Three of Santa's elves are working in Santa's toy factory.

Each elf will need to be able to use a workbench in the factory throughout the day to help build toys.

Not every task needs a workbench.



Their schedules are as follows:

- **Jingles:** "I will need a workbench to build toy cars from 10 to 12. From 12 to 1, I will be outside feeding the reindeer their lunch. After my own lunch break, I will need a workbench again from 2 to 4 so I can wrap the toy cars I built earlier in the day."
- **Sparkles:** "From 9 to 11, I will be making dolls and I will need a workbench for that. I will be helping Santa revise his naughty and nice list from 11 to 1 and will not be in the factory. I will need a workbench again at 3 for an hour to finish the dolls."
- **Merry:** "I'll be working in the toy factory until 11, however I will not need a workbench as I will be busy cleaning it instead of making toys. I'll need a workbench at 11 for two hours so I can build some toy trains. For the remainder of the afternoon I will be working in the kitchen. However, I'll be back from 3 to 4 to paint my trains from earlier and I will need a workbench for that."

Each workbench can be used by only one elf at a time.

QUESTION

What is the minimum number of workbenches needed so that each elf can get their tasks done?

- A. 1
- B. 2
- C. 3
- D. 4

