Generating questions and solutions documents from the same R Markdown document

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Introduction

- This example R Markdown document demonstrates how to include questions and answers in the same Rmd document.
- When rendering the questions, in the YAML header set solutions: FALSE
- When rendering the solutions, in the YAML header set solutions: TRUE
- If rendering using the knit button the output filename will end -solutions.extension due to the custom knit function which I modified from Yihui Xie's advice here.

Questions

- To generate pdf output you need the TinyTeX package installed, install.packages('tinytex').
- Paragraph text for questions is written in standard R Markdown syntax, which can include LaTeX maths and code chunks.
- In questions, R code chunks for which you want to see the code or output or both require the chunk option include=TRUE, i.e.

```
```{r, include=TRUE}
...code...
```

#### Solutions

• Paragraph text for solutions go in asis code chunks, i.e.

```
```{asis}
...Text explaining the answer ...
```

• R code chunks for solutions are included as normal, i.e.

```
```{r}
...Code for answer...
```

- You can use your preferred R Markdown syntax for laying out your questions. I often use simple section headers, e.g.
  - # Question 1
- For numbered sections add the option number\_sections: true to the output in the YAML header.

## Example R code chunk