**Decide loop types**

*State whether each of the following is deterministic or non-deterministic and justify your*

*choice:*

1. writing Christmas cards to family

deterministic because you know how many cards you have to make

1. washing up

deterministic / non-deterministic

1. reading a book

non-deterministic because you don’t know how many times you want to read that book

1. waiting for someone to answer the phone

non-deterministic because you don’t know when the person calls you

deterministic because you fix a meeting call at x hour

1. counting to 10 in French

deterministic because you are just counting to 10

1. playing a game of 501 in darts

deterministic because you know when the game is finish

1. laying the table for a dinner party

deterministic because you know how many people are coming for the dinner party

non-deterministic because there are some surprises sometimes

1. answering this question

deterministic because I know how many questions there are

NB: some of these could be either deterministic or non-deterministic

**deterministic**: we know before the loop how many times to repeat it, and we know when the loop starts and when the loop finishes

**non-deterministic**: we don’t know how many times to repeat, so we don’t know when the loop stop for example.