Solution to problem: Structured English

Gather ingredients

Set counter to zero

Do Until counter = 12

        Increment counter by 1

        If counter in (2, 4, 6, 8, 10, 12) get multigrain bread

            Else get white bread

        Butter bread

        If counter in (2, 4, 6, 8, 10, 12) add ham and tomato

            Else add ham and cheese

        If counter in (3, 6, 9, 12) then add mustard

        If counter in (6, 12) then add mayonnaise

        Wrap in wax paper

        Place in sandwich bag

        Stack in sandwich cabinet

        Check counter

End

Solution to problem: Flowchart

START

GATHER INGREDIENTS → SET COUNTER TO 0 → IS COUNTER = 12?

IS COUNTER = 12? — YES → (to STACK IN CABINET path / END)

IS COUNTER = 12? — NO → INCREMENT COUNTER BY 1

INCREMENT COUNTER BY 1 → COUNTER EVEN?

COUNTER EVEN? — NO → GET WHITE BREAD

COUNTER EVEN? — YES → GET MULTIGRAIN BREAD

GET WHITE BREAD → BUTTER BREAD

GET MULTIGRAIN BREAD → BUTTER BREAD

BUTTER BREAD → COUNTER EVEN?

COUNTER EVEN? — YES → ADD HAM, CHEESE

COUNTER EVEN? — NO → ADD HAM, CHEESE

ADD HAM, CHEESE → ADD HAM, TOMATO

ADD HAM, TOMATO → COUNTER IN (3,6,9.12)?

COUNTER IN (3,6,9.12)? — YES → ADD MUSTARD

COUNTER IN (3,6,9.12)? — NO → COUNTER IN (6, 12)?

ADD MUSTARD → COUNTER IN (6, 12)?

COUNTER IN (6, 12)? — YES → ADD MAYONNAISE

COUNTER IN (6, 12)? — NO → WRAP IN WAX PAPER

ADD MAYONNAISE → WRAP IN WAX PAPER → PUT IN SANDWICH BAG → STACK IN CABINET

STACK IN CABINET → END

END