

Loop Timed Quiz with Switch : On computer, 20 minutes. No Internet or notes allowed.

Santa is a fellow who enlists help of elves to make presents. In order to know how many presents (roller skates) to make, the elves look through Santa's "naughty and nice" list. If a child is naughty, a pair of roller skates get made. If a child is naughty, a present (roller skates) does not get made. Asking if the child is naughty or nice, and the subsequent questions (if the child is nice) repeats until the user types "Summary."

If a user types Summary, then the computer stops repeating and prints the total number of roller skates as shown below.

If a present is made, then a size is assigned based on the age of the child. Use switch to assign a size. If age is 4, 5, or 6, then size is 'S.' If age is 7 or 8, then size is 'M.' If age is 9, then size is 'L.' If age is something else, then size is 'U.'

Here's sample output:

Elf: Naughty or nice (or summary)? Naughty

Elf: Naughty or nice (or summary)? Nice

Elf: Age? 5

Elf: Naughty or nice (or summary)? Nice

Elf: Age? 9

Elf: Naughty or nice (or summary)? Nice

Elf: Age? 9

Elf: Naughty or nice (or summary)? Summary

We have 3 nice kids out of 4 kids total. We need to make:

1 pair S roller skates

0 pair M roller skates

2 pair L roller skates

0 pair U roller skates

Loop and Switch Quiz - On computer, 20 minutes. No Internet or notes allowed.

Santa is a fellow who enlists help of reindeer to deliver presents. In order to know how to land his sleigh, he assesses if there is a flat roof or not. If there is a flat roof, he will land on the roof. If it is not flat, he will land on the ground. He continually assesses if there is a flat roof or not, until the user enters Review.

If a user types Review, then the computer stops repeating and prints the total number of roof landings as shown below.

If a flat roof landing is planned, Santa also needs to know the size of the roof so he can plan a sudden stop. Use a switch structure to determine this. If it is 3, 4, or 5 meters long, then there will be a sudden stop. If the roof is 6 or 7 meters long, then the stop is moderate. If the roof is 8 meters long, the stop is slow. All other roof sizes have an easy stop.

Here's sample output:

Santa: Flat or not (or Review)? Flat

How long? 8

Santa: Flat or not (or Review)? Not

Santa: Flat or not (or Review)? Flat

How long? 5

Santa: Flat or not (or Review)? Flat

How long? 3

Santa: Flat or not (or Review)? Review

We have 3 flat roofs out of 4 roofs total. We need to prepare our brakes so we can make:

2 sudden stop(s)

0 moderate stop(s)

1 slow stop(s)

0 easy stop(s)