



 [Dashboard](#) / [Primer 2.0 - App Dev](#) / [Stage 1](#) / [Software Fundamentals](#) / [Looping statements](#)

Assignment: Pistol Event

Helen wins a Gold medal in the Women's 10m Air Pistol event. She wants to coach many of her students and encourage them to participate in the State Air Pistol event. The students are trained with the concentric circle board. She has a rule in the academy. When a student hits the bull's eye, he scores a 100 points. The score decreases depending on the circle hit. When a student hits outside of the board, he scores a 0. She will not allow a student to leave unless they score 100.

Can you write a pseudocode to determine the number of turns a student takes to reach the target score of 'n'?

Input:

45

21

34

Output Statement:

The number of turns is 3

Explanation :

As per the question, we have to get the input from the user, until they sum up to 100. Here the number of times to get the input is not known. Hence we use while loop.



Pseudocode :

Declare the variables to store the number, take the sum and count the number of numbers we get from user (to get the sum as 100)

DECLARE variables count ,sum ,number

SET count =0 , sum=0

Get the input from the user

READ number

Do the task of calculating the sum until its value is ≤ 100

WHILE sum ≤ 100 DO

sum=sum + number

Inside while loop, Increment the count

count =count + 1

Inside while loop, get the next input

READ number

Continue this until while condition is true

END WHILE

Once it comes out of while loop, display the count as

PRINT "The number of turns is "+ count

Submission status

Submission status	Submitted for grading
Grading status	Not graded
Last modified	Saturday, 13 January 2024, 6:45 PM
Online text	<div><div></div><div><pre>BEGIN DECLARE variables count ,sum ,number SET count =0 , sum=0 READ number WHILE sum<=100 DO sum=sum + number count =count + 1 READ number END WHILE PRINT "The number of turns is "+ count END</pre></div></div>
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◀ **Factorial of number**

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