If credit\_at\_pass,defer,fail is in integers

Input credit\_at\_pass, defer, fail

Display “Enter an integer”

No

Yes

If credit\_at\_pass,defer,fail is in (0,20,40,60,80,100,120)

No

Display “Invalid range.”

Yes

If credit\_at pass+defer+fail==120

Display “Total incorrect.”

No

Yes

Statement checking and producing the relevant output

Histogram

Pre-defined process

If credit\_at\_pass==120

Display “Progress.”

Yes

Add 1 to progress counter

No

elIf credit\_at\_pass==100

Display “Progress-module trailer.”

Yes

Add 1 to trailer counter

No

elIf fail in [120,100,80]

Yes

Add 1 to Exclude

counter

Display “Exclude.”

No

Display “Do not progress-module retriever.”

Add 1 to Retriever counter

Does user enter q for histogram

No

Yes

Histogram

Display progress = progress counter into \*

Display trailer = trailer counter into \*

Display Retriever = retriever counter into \*

Display exclude = exclude counter into \*