Banner Printing Algorithm

Outputs: (text description of what the algorithm will output)

-A p (ger	ner	rat	ec										Lcc	ome	e r	nes	SSE	age	2 1	fo	ll	OW	ed	by	а	random	ı nı	umber
***	k*×	k **	* *>	* *	* *	**	**	* *	k*×	* *	**	k *>	k *>	< * ×	k*>	k *×	k*×	k *>	< * >	k*>	k*:	**:	*					
!!	1	Ţ	!	!	Ţ	!	!	!	!	!	!	!	!	ļ	!	1	Ţ	!	!	!	!	!	!					
***	k *×	k **	* *>	* *	* *	**	**	* *	k*×	* *	**	* *	k *>	* *	k*>	k *×	k**	k *>	< * >	k*>	k*:	**:	*					
We	lco	ome	t	0	we	ek	3	3 1	lak) –	٠ ١	/οι	ır	lı	ıcl	(V	nι	ımk	eı	_ :	İS	1	3					
Welcome to week 3 lab - your lucky number is 13 ***********************************																												
1 1	1	!	!	!	!	!	!	Ţ	!	!	Ţ	1	1	Ţ	1	1	!	1	!	1	1	!						

Relevant Constants and Formulas:
-The width of a banner is 50 characters

Main Algorithm (numbered steps)

1. Generate a random number between 0 and 29

- 2. Print the top line of the banner
- 3. Print a welcome message that includes the random number
- 4. Print the bottom line of the banner

Step Refinements (provide a refinement for each numbered step that has multiple sub-steps)

Step 2 refinement

- 2.1 Print a row of asterisks
- 2.2 Print exclamation points in every other position on the second row
- 2.3 Print a row of asterisks

Step 4 refinement

- 4.1 Print a row of asterisks
- 4.2 Print exclamation points in every other position on the second row
- 4.3 Print a row of asterisks