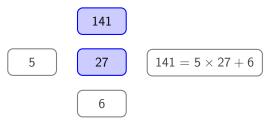
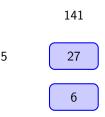
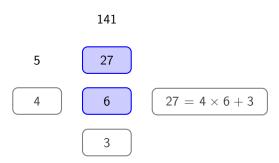
Coefficients de Bachet-Bézout pour les humains

Un moyen efficace de trouver des coefficients de Bachet-Bézout.

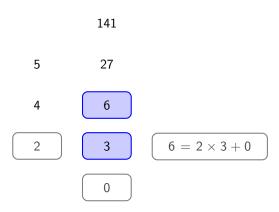
Un exemple avec a = 141 et b = 27.







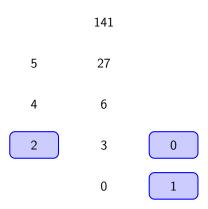
	141
5	27
4	6
	3

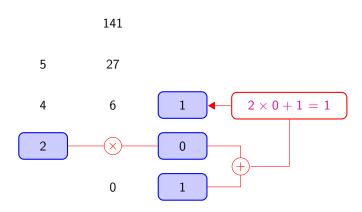


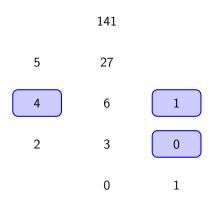
	141
5	27
4	6
2	3
	0

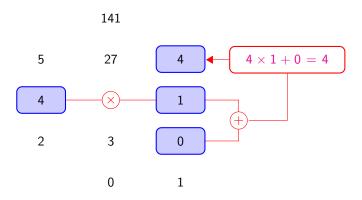
	141
5	27
4	6
2	3
	0

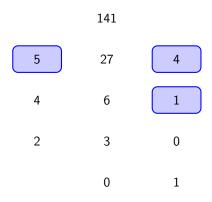
	141	
5	27	
4	6	
2	3	0
	0	1

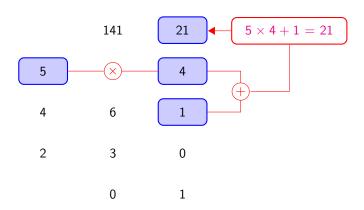






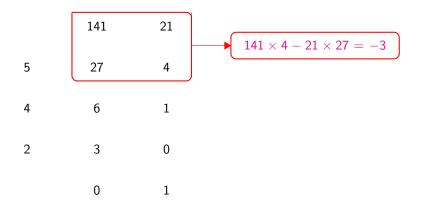






	141	21
5	27	4
4	6	1
2	3	0
	0	1

Le tour est joué



Conclusion

Finalement nous avons:

$$141 \times 4 - 27 \times 21 = -3$$

$$\updownarrow$$

$$27 \times 21 - 141 \times 4 = 3$$

$$\updownarrow$$

$$27 \times 21 - 141 \times 4 = \operatorname{pgcd}(27, 141)$$

Conclusion

Finalement nous avons:

$$141 \times 4 - 27 \times 21 = -3$$

$$\updownarrow$$

$$27 \times 21 - 141 \times 4 = 3$$

$$\updownarrow$$

$$27 \times 21 - 141 \times 4 = \operatorname{pgcd}(27, 141)$$

Et cela marche à tous les coups!