02-int-type

September 16, 2022

1 Int type

[3]: 5

[6]: 2.4

[7]: 2

Python integers have unlimited range, subject only to the available virtual memory.

[1]: a, b = 12, 5

[2]: a

[2]: 12

[3]: b

The more or less obvious... addition

[4]: a + b

[4]: a + b

subtraction

[5]: a - b

[5]: 7

"True" division

[6]: a / b

[6]: a / b

Integer division

[7]: a // b

Multiplication

[8]: a * b

[8]: 60

Power

[9]: a ** b # power operator

[9]: 248832

Casting

[10]: int(1.75)

「10]: 1

[11]: int(-1.75)

[11]: -1

remainder of the division

[12]: a % b

[12]: 2

and a very big number...

[13]: 2 ** 100000

[13]: 99900209301438450794403276433003359098042913905418169177152927386314583246425734 83274873313324496504031643944455558549300187996607656176562908471354247492875198 88962987367109324635042737311247926580027853124108873708560528722839016456869102 68506759235179146970528576446968015248323454755432502927865208069577709717411022 32042976351205330777996897925116619870771785775955521720081320295204617949229259 29562392096579787355815866752549579731314480624926026183794130508058268603153513 41787396228349908863577580621046066363721305877953223449720108084863695414018358 51359858035603574021872908155566580607186461268972839794621842267579349638893357 24758876195913765676241112502070870487046517939639871010920036393474561809060161 33778985602968635985580247614489330470522228601313770959583573194858984964045723 83875170702242332633436894423297381877733153286944217936125301907868903603663283 16150272613993415280407117191492390334187493539445589630129219725641771723354354 47515523793108922681824024527557520947046421859438628656327442313320847422215514 93315002717750064228826211822549349600557457334964678483269180951895955769174509 67322441774043284045588210913790537564677213997662178526505716985483456248751832 23832503186455054721143699341679816781702551228129780651948062954053391546574799 41297499190348507544336414505631657396006693382427316434039580121280260984212247 51420783471222483141030406860371964016185574165643947225346494524970031450989009 31622689527444287054764254722531675145211822314553883743082326422006330251375331 29365164341725206256155311794738619142904761445654927128418175183531327052975495 37056143823957322793967303010607745684847742783219534922798383643616376474296954 59066723691241363259321233356431358944652191018821238297409079163860232354509593

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