ALGORITMO 1:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Vuelta 1 | A=412 | B=260 | R=412mod260 | R=152 | R!=0 | A=B, B=R |
| Vuelta 2 | A=260 | B=152 | R=260mod152 | R=108 | R!=0 | A=B, B=R |
| Vuelta 3 | A=152 | B=108 | R=152mod108 | R=44 | R!=0 | A=B, B=R |
| Vuelta 4 | A=108 | B=44 | R=108mod44 | R=20 | R!=0 | A=B, B=R |
| Vuelta 5 | A=44 | B=20 | R=44mod20 | R=4 | R!=0 | A=B, B=R |
| Vuelta 6 | A=20 | B=4 | R=20mod4 | R=0 |  | Return B |

ALGORITMO 2:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vuelta 1 | A=412 | B=260 | R=412mod260 | R=152 | R!=0 | R>130 | R=B-R | A=B,B=R |
| Vuelta 2 | A=260 | B=108 | R=260mod108 | R=44 | R!=0 | R<59 | - | A=B,B=R |
| Vuelta 3 | A=108 | B=44 | R=108mod44 | R=20 | R!=0 | R<22 | - | A=B,B=R |
| Vuelta 4 | A=44 | B=20 | R=44mod20 | R=4 | R!=0 | R<10 | - | A=B,B=R |
| Vuelta 5 | A=20 | B=4 | R=20mod4 | R=0 | - | - | - | Return B |

ALGORITMO 3:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Vuelta 1 | A=412 | B=260 | B!=0 | B=A%B | B=152 |
| Vuelta 2 | A=260 | B=152 | B!=0 | B=A%B | B=108 |
| Vuelta 3 | A=152 | B=108 | B!=0 | B=A%B | B=44 |
| Vuelta 4 | A=108 | B=44 | B!=0 | B=A%B | B=20 |
| Vuelta 5 | A=44 | B=20 | B!=0 | B=A%B | B=4 |
| Vuelta 6 | A=20 | B=4 | B!=0 | B=A%B | B=0 |
| Vuelta 7 | A=4 | B=0 | B==0 | Return B |  |

ALGORITMO 4:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Vuelta 1 | A=412 | B=260 | !A%2 | !B%2 | A=A/2, B=B/2 | 2\* |
| Vuelta 2 | A=206 | B=130 | !A%2 | !B%2 | A=A/2, B=B/2 | 2\* |
| Vuelta 3 | A=103 | B=65 | A%2 | B%2 | A=(|A|-|B|)/2 |  |
| Vuelta 4 | A=19 | B=65 | B>A | - | T=A,A=B, B=T |  |
| Vuelta 5 | A=65 | B=19 | A%2 | B%2 | A=(|A|-|B|)/2 |  |
| Vuelta 6 | A=23 | B=19 | A%2 | B%2 | A=(|A|-|B|)/2 |  |
| Vuelta 7 | A=2 | B=19 | B>A | - | A=B, B=A |  |
| Vuelta 8 | A=19 | B=2 | A%2 | !B%2 | B=B/2 |  |
| Vuelta 9 | A=19 | B=1 | A%2 | B%2 | A=(|A|-|B|)/2 |  |
| Vuelta 10 | A=9 | B=1 | A%2 | B%2 | A=(|A|-|B|)/2 |  |
| Vuelta 11 | A=4 | B=1 | !A%2 | B%2 | A=A/2 |  |
| Vuelta 12 | A=2 | B=1 | !A%2 | B%2 | A=A/2 |  |
| Vuelta 13 | A=1 | B=1 | A%2 | B%2 | A=(|A|-|B|)/2 |  |
| Vuelta 14 | A=0 | B=1 | B>A | - | T=A,A=B, B=T |  |
| Vuelta 15 | A=1 | B=0 | B==0 |  |  | Return 2\*2\*A |

ALGORITMO 5:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vuelta 1 | A=412 | B=260 | G=1 | A!=0 | !A%2 | !B%2 | A>=B | A/= 2, B/= 2  G\*=2 |
| Vuelta 2 | A=206 | B=130 | G=2 | A!=0 | !A%2 | !B%2 | A>=B | A/=2  B/=2  G\*=2 |
| Vuelta 3 | A=103 | B=65 | G=4 | A!=0 | A%2 | B%2 | A>=B | A=  |A-B|/2 |
| Vuelta 4 | A=19 | B=65 | G=4 | A!=0 | A%2 | B%2 | B>A | B=  |A-B|/2 |
| Vuelta 5 | A=19 | B=23 | G=4 | A!=0 | A%2 | B%2 | B>A | B=  |A-B|/2 |
| Vuelta 6 | A=19 | B=2 | G=4 | A!=0 | A%2 | !B%2 | A>=B | B=B/2 |
| Vuelta 7 | A=19 | B=1 | G=4 | A!=0 | A%2 | B%2 | A>=B | A=  |A-B|/2 |
| Vuelta 8 | A=9 | B=1 | G=4 | A!=0 | A%2 | B%2 | A>=B | A=  |A-B|/2 |
| Vuelta 9 | A=4 | B=1 | G=4 | A!=0 | !A%2 | B%2 | A>=B | A/=2 |
| Vuelta 10 | A=2 | B=1 | G=4 | A!=0 | !A%2 | B%2 | A>=B | A/=2 |
| Vuelta 11 | A=1 | B=1 | G=4 | A!=0 | A%2 | B%2 | A>=B | A=  |A-B|/2 |
| Vuelta 12 | A=0 | B=1 | G=4 | A==0 | Return G\*B |  |  |  |

ALGORITMO 6:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Vuelta 1 | A=412 | B=260 | A!=B | A>B | A-=B |
| Vuelta 2 | A=152 | B=260 | A!=B | B>A | B-=A |
| Vuelta 3 | A=152 | B=108 | A!=B | A>B | A-=B |
| Vuelta 4 | A=44 | B=108 | A!=B | B>A | B-=A |
| Vuelta 5 | A=44 | B=64 | A!=B | B>A | B-=A |
| Vuelta 6 | A=44 | B=20 | A!=B | A>B | A-=B |
| Vuelta 7 | A=24 | B=20 | A!=B | A>B | A-=B |
| Vuelta 8 | A=4 | B=20 | A!=B | B>A | B-=A |
| Vuelta 9 | A=4 | B=16 | A!=B | B>A | B-=A |
| Vuelta 10 | A=4 | B=12 | A!=B | B>A | B-=A |
| Vuelta 11 | A=4 | B=8 | A!=B | B>A | B-=A |
| Vuelta 12 | A=4 | B=4 | A==B | Return A |  |