|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Variables | | | Conditions checked | | |  |
| Line number | num | sum | divider | (num / 2)  >= divider | num %  divider == 0 | num == sum AND num != 1 | Output |
| 1. |  |  |  |  |  |  |  |
| 2. | 0 |  |  |  |  |  |  |
| 3. |  | 1 |  |  |  |  |  |
| 4. |  |  | 2 |  |  |  |  |
| 5. | 25 |  |  |  |  |  |  |
| 6. | 25 | 1 | 2 | (25/2)>=2  TRUE |  |  |  |
| 7. | 25 | 1 | 2 |  | 25%2==0  FALSE |  |  |
| 10. |  |  | 2+1=3 |  |  |  |  |
| 6. | 25 | 1 | 3 |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 1 |  |  |  |  |  |
|  |  |  | 3 |  |  |  |  |
| 6 |  |  |  | 25/2>=3  TRUE |  |  |  |
| 7 |  |  |  |  | 25%3==0  FALSE |  |  |
| 10 |  |  | 3+1=4 |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 1 |  |  |  |  |  |
|  |  |  | 4 |  |  |  |  |
| 6 |  |  |  | 25/2>=4  TRUE |  |  |  |
| 7 |  |  |  |  | 25%4==0  FALSE |  |  |
| 10 |  |  | 4+1=5 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 1 |  |  |  |  |  |
|  |  |  | 5 |  |  |  |  |
| 6 |  |  |  | 25/2>=5  TRUE |  |  |  |
| 7 |  |  |  |  | 25%5==0  TRUE |  |  |
| 8 |  | 1+5=6 |  |  |  |  |  |
| 10 |  |  | 5+1=6 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 6 |  |  |  |  |
| 6 |  |  |  | 25/2>=6  TRUE |  |  |  |
| 7 |  |  |  |  | 25%6==0  False |  |  |
| 10 |  |  | 6+1=7 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 7 |  |  |  |  |
| 6 |  |  |  | 25/2>=7  TRUE |  |  |  |
| 7 |  |  |  |  | 25%7==0  FALSE |  |  |
| 10 |  |  | 7+1=8 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 8 |  |  |  |  |
| 6 |  |  |  | 25/2>=8  TRUE |  |  |  |
| 7 |  |  |  |  | 25%8==0  FALSE |  |  |
| 10 |  |  | 8+1=9 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 9 |  |  |  |  |
| 6 |  |  |  | 25/2>=9  TRUE |  |  |  |
| 7 |  |  |  |  | 25%9==0  FALSE |  |  |
| 10 |  |  | 9+1=10 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 9 |  |  |  |  |
| 6 |  |  |  | 25/2>=10  TRUE |  |  |  |
| 7 |  |  |  |  | 25%10==0  False |  |  |
| 10 |  |  | 10+1=11 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 11 |  |  |  |  |
|  |  |  |  | 25/2>=11  TRUE |  |  |  |
|  |  |  |  |  | 25%11==0  False |  |  |
|  |  |  | 11+1=12 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 12 |  |  |  |  |
| 6 |  |  |  | 25/2>=12  TRUE |  |  |  |
| 7 |  |  |  |  | 25%12==0  FALSE |  |  |
| 10 |  |  | 12+1=13 |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | 25 |  |  |  |  |  |  |
|  |  | 6 |  |  |  |  |  |
|  |  |  | 13 |  |  |  |  |
| 6 |  |  |  | 25/2>=13  FALSE |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 25==6 AND 25 !=1 FALSE |  |
|  |  |  |  |  |  |  | 25 is not a perfect number |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | VARIABLES | | | CONDITIONS CHECKED | | |  | | |
| Line Number | num | sum | divider | (Num/2)>=divider | Num%divider==0 | Num==sum AND num!=1 | | Output |
|  |  |  |  |  |  |  | |
| 2 | 0 |  |  |  |  |  | |  | |
| 3 |  | 1 |  |  |  |  | |  | |
| 4 |  |  | 2 |  |  |  | |  | |
| 5 | 1 |  |  |  |  |  | |  | |
| 6 |  |  |  | 1/2>=2  FALSE |  |  | |  | |
| 7 |  |  |  |  |  |  | |  | |
| 10 |  |  |  |  |  |  | |  | |
|  |  |  |  |  |  | 1==1 AND 1!=1  FALSE | |  | |
|  |  |  |  |  |  |  | | 1 is not a perfect number | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Variables | | | Conditions checked | | |  |
| Line number | num | sum | divider | (num/2)>=divider | Num%divider==0 | Num==sum AND num!=1 | Output |
| 2 | 0 |  |  |  |  |  |  |
| 3 |  | 1 |  |  |  |  |  |
| 4 |  |  | 2 |  |  |  |  |
| 5 | 0 |  |  |  |  |  |  |
| 6 |  |  |  | 0/2>=2  FALSE |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 0==1 AND 0!=1  FALSE |  |
|  |  |  |  |  |  |  | 0 IS NOT A PERFECT NUMBER |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | VARIABLES | | | | | CONDITIONS CHECKED | | | | | | | |  |
| Line number | num | | sum | | divider | (Num/2)>=divider | | | Num%divider==0 | | Num==sum AND num!=1 | | | OUTPUT |
| 2 | 0 | |  | |  |  | | |  | |  |  | |  |
| 3 |  | | 1 | |  |  | | |  | |  |  | |  |
| 4 |  | |  | | 2 |  | | |  | |  |  | |  |
| 5 | 6 | |  | |  |  | | |  | |  |  | |  |
| 6 |  | |  | |  | 6/2>=2  TRUE | | |  | |  |  | |  |
| 7 |  | |  | |  |  | | | 6%2==0  TRUE | |  |  | |  |
|  |  | | 1+2=3 | |  |  | | |  | |  |  | |  |
| 10 |  | |  | | 2+1=3 |  | | |  | |  |  | |  |
|  |  | |  | |  |  | | |  | |  |  | |  |
|  | 6 | |  | |  |  | | |  | |  |  | |  |
|  |  | | 3 | |  |  | | |  | |  |  | |  |
|  |  | |  | | 3 |  | | |  | |  |  | |  |
| 6 |  | |  | |  | 6/2>=3  TRUE | | |  | |  |  | |  |
| 7 |  | |  | |  |  | | | 6%3==0  TRUE | |  |  | |  |
| 8 |  | | 3+3=6 | |  |  | | |  | |  |  | |  |
| 10 |  | |  | | 3+1=4 |  | | |  | |  |  | |  |
|  |  | |  | |  |  | | |  | |  |  | |  |
|  | 6 | |  | |  |  | | |  | |  |  | |  |
|  |  | | 6 | |  |  | | |  | |  |  | |  |
|  |  | |  | | 4 |  | | |  | |  |  | |  |
| 6 |  | |  | |  | 6/2>=4  False | | |  | |  |  | |  |
| 7 |  | |  | |  |  | | |  | |  |  | |  |
| 10 |  | |  | |  |  | | |  | |  |  | |  |
|  |  | |  | |  |  | | |  | | 6==6 AND 6!=1  TRUE |  | |  |
|  |  | |  | |  |  | | |  | |  |  | | 6 is a perfect number |
|  | | | Variables | | | | | | Conditions checked | | | | |  | |
| Line number | | | num | | sum | | | divider | (num / 2)  >= divider | | num %  divider == 0 | num == sum AND num != 1 | | Output | |
| 1. | | |  | |  | | |  |  | |  |  | |  | |
| 2. | | | 0 | |  | | |  |  | |  |  | |  | |
| 3. | | |  | | 1 | | |  |  | |  |  | |  | |
| 4. | | |  | |  | | | 2 |  | |  |  | |  | |
| 5. | | | 28 | |  | | |  |  | |  |  | |  | |
| 6. | | | 28 | |  | | |  | (28/2)>=2  TRUE | |  |  | |  | |
| 7. | | |  | |  | | |  |  | | 28%2==0  TRUE |  | |  | |
| 8 | | |  | | 1+2=3 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 2+1=3 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 3 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 3 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=3  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%3==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 3+1=4 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 3 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 4 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=4  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%4==0  TRUE |  | |  | |
| 8 | | |  | | 3+4=7 | | |  |  | |  |  | |  | |
| 10 | | |  | |  | | | 4+1=5 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 7 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 5 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=5  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%5==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 5+1=6 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 7 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 6 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=6  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%6==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 6+1=7 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 7 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 7 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=7  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%7==0  TRUE |  | |  | |
| 8 | | |  | | 7+7=14 | | |  |  | |  |  | |  | |
| 10 | | |  | |  | | | 7+1=8 |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 14 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 8 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=8  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%8==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 8+1=9 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 14 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 9 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=9  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%9==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 9+1=10 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 14 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 10 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=10  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%10==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 10+1=11 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 14 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 11 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=11  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%11==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 11+1=12 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 14 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 12 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=12  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%12==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 12+1=13 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 14 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 13 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=13  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%13==0  FALSE |  | |  | |
| 10 | | |  | |  | | | 13+1=14 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 14 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 14 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=14  TRUE | |  |  | |  | |
| 7 | | |  | |  | | |  |  | | 28%14==0  TRUE |  | |  | |
| 8 | | |  | | 14+14=28 | | |  |  | |  |  | |  | |
| 10 | | |  | |  | | | 14+1=15 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | | 28 | |  | | |  |  | |  |  | |  | |
|  | | |  | | 28 | | |  |  | |  |  | |  | |
|  | | |  | |  | | | 15 |  | |  |  | |  | |
| 6 | | |  | |  | | |  | 28/2>=15  FALSE | |  |  | |  | |
| 10 | | |  | |  | | | 15+1=16 |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  | 28==28 AND 28!=1  TRUE | |  | |
|  | | |  | |  | | |  |  | |  |  | | 28 is a perfect number | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |
|  | | |  | |  | | |  |  | |  |  | |  | |