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Fill in each of the following:

|  | **Expression** | **Your Answer:** |
| --- | --- | --- |
|  | 2 + 3 \* 2.0 | EXAMPLE:   1. Annotated with types: 2[int] + 3[int] \* 2.0[double] 2. Multiplication goes first 3. Convert 3[int] to 3.0[double] 4. 2[int] + 3.0[double] \* 2.0[double] 5. Do the multiplication: 2[int] + 6.0[double] 6. Addition goes next 7. Convert 2[int] to 2.0[double] 8. 2.0[double] + 6.0[double] 9. Do the addition 10. 8.0 [double] is the final result |
|  | 2 \* 6 / 3 | 1. Annotate with types: 2[int] \* 6[int] / 3 [int] 2. Multiplication goes first 3. 12 [int] / 3[int] 4. 4[int] is the final result |
|  | 20 – 6 / 2 | 1. Annotate with types: 20[int] – 6[int] / 2[int] 2. Division goes first 3. 20[int] – 3[int] 4. 17[int] is the final result |
|  | 43 > 20 && 20 > 10 | 1. Annotate with types 2. 43[int] [is great than] 20[int] [and] 20[int] [is greater than] 10 [int] 3. Evaluate left side 4. [true] 5. And 6. Evaluate right side 7. [true] 8. [true] is the final answer |
|  | int x = 43;  int y = 20;  bool z = (x >= y && y < x); | 1. Annotate with types: (x[int] [is greater than or equal to] y[int] [and] y [int] [is less than] x [int] 2. (43[int] [greater than or equal to] 20[int] [and] 20[int] [is less than] 43[int] 3. Evaluate left side 4. [true] 5. Evaluate right side 6. [true] 7. Bool z = true[bool] 8. Z = true is the final result |
|  | int x = 2;  int y = 2 \*x + 1; | 1. Annotate with types: 2 [int] \* x[int] + 1[int] 2. 2[int] \* 2[int] + 1[int] 3. Evaluate from left to right 4. Multiplication goes first 5. 4[int]+1[int] 6. Int y = 5[int] 7. Y = 5[int] is the final answer |
|  | int x = 2;  int y = 2 \* (x + 1); | 1. Annotate with types: 2[int] \* (x[int] + 1) 2. 2[int] \* (2[int]+1) 3. Parentheses goes first 4. 2[int] \* 3[int] 5. Int y = 6[int] is the final answer |
|  | int x = 2;  bool z = 2 \* x >= 10; | 1. Annotate with types: 2[int] \* x[int] [is greater than or equal to] 10 [int] 2. 2[int] \* 2[int] [is greater than or equal to] 10 [int] 3. Multiplication goes first 4. 4[int] [is greater than or equal to] 10 5. Bool z = [false] is the final answer |