```
function
    bool is prime receive ( int x )
    {
        declare (bool result = true);
        condition
             if( x == 1 \mid | (x \% 2 == 0 \&\& x != 2))
                 give (result <- false);</pre>
            else
                 loop
                     for ( declare (int d = 3); d * d <= x; increment (2))
                          condition
                              if(x \% d == 0)
                                  give (result <- false);</pre>
                          );
                     }
                 );
        );
        return ( result );
);
main
    main noreceive
        declare (int x);
        write ( "give x = " );
        read (x);
        declare (bool result);
        give (
                 result <-
                     call (is prime with (x))
              );
```

```
write( "\nresult is {result}" );
);
function
    int smallest_common_multiple receive ( int a, int b)
        declare (int x = a), (int y = b);
        loop
            while(x != y)
                condition
                     if(x > y)
                         give (y \leftarrow y + b);
                     else
                         give (x < -x + a);
                 );
        );
        return (x);
    }
);
main
(
    main noreceive
    {
        declare (int a), (int b);
        write ( "give a = " );
        read (a);
        write ( "give b = " );
        read (b);
        declare (int result);
        give (
                result <-
                     call (smallest_common_multiple with (a, b))
             );
```

```
write( "\nresult is {result}" );
    }
);
function
    noreturn print_sum receive ( array<int> list )
        declare (int sumt = 0);
        loop
            for( declare (int i = 0); i < length(list); increment 1)</pre>
                 give (sum <- sum + list[i]);</pre>
        );
        write ("sum is {sum}");
);
main
(
    main noreceive
        declare (array<int> list);
        write ( "give list = " );
        read (list);
        call (print sum with (x));
);
function
    noreturn print sum ( array<int> list ) // did not specify "receive" for
parameter
    {
        declare (int sumt = 0);
        loop
            for( declare (int i = 0); i < length(list); increment 1)</pre>
```

```
give (sum = sum + list[i]); // used = instead of <-
}
);

write ("sum is {sum}");
}
) // no;

main noreceive // did not specify if this is a function
{
  declare (array<int> list);
  write ( "give list = " );
  read (list);

call (print_sum with (x));
}
```