```
function prod_out= MultGF2(m1, m2, GF)
%MULTGF2:
   -m1 and m2 are the input parameters that are to be multiplied,
they are
% in power form and consist of a single element of GF(2^m)
  -GF is the enumeration of the GF
m = size(GF\{1\}, 2);
n = 2^m;
if(m1 < -1 \mid | m1 > n-2)
    error("a1 = %d is not a valid power of alpha in GF(2^*d)\n", a1,
    return
end
if(m2 < -1 \mid | m2 > n-2)
    error("a2 = %d is not a valid power of alpha in GF(2^*d)\n", a2,
m);
    return
end
if(m1 == -1 | m2 == -1)
   prod_out = -1;
else
    prod_out = mod(m1 + m2, n-1);
end
end
```

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