Input: P- OSG post, $\mathcal{T}_E$- Emotion thesaurus, $\mathcal{T}_m$- Intensity modifier thesaurus
Output: $E(P)$ - Emotion vector of OSG post P

```
E(P) ← ∅
P ← Preprocess(P)      // remove URLs, numbers, punctuations
{w}_P ← Tokenize(P)          // tokenise the post into words

for i ← 1 to 16 do
    T_Ei ← T_E
    e_i ← 0
    w_prev ← null
    foreach w in {w}_P do
        // lookup w in emotion i term list
        if w ∈ T_Ei then
            e_i ← e_i + 1

            // lookup w_prev in intensity modifier thesaurus
            if w_prev ≠ null and w_prev ∈ T_m then
                e_i ← e_i + T_m(w_prev)
        w_prev ← w
    e_i ← e_i/|{w}_P|
    E(P) ← E(P) ∪ e_i
return E(P)
```

S1 Fig: Algorithm for determining the 16-dimensional emotion vector E_P of a given OSG post P