

```
function x = compute_features(str, q)
% x = compute_features(str, q)
%
%   Computes features for string `str` and subsequence of `q` characters.
%
%   Parameters:
%       str - string to calculate features for
%       q   - subsequence length
%
%   Return:
%       x - features for length `q` subsequences selected from `str`
n = length(str);
total = 1;
ordered = [];
if n >= q
    x = cellstr(nchoosek(str, q));
    for i = 1:n-q+1
        select = total + nchoosek(n-i,q-1) - 1;
        ordered = [ordered; {x(total:select)}];
        total = select + 1;
    end
end
x = ordered;
end
```

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