

```

1  function C = corr_3d(a, b, cc)
2
3  if nargin<1 || nargin>3 || nargout>1, error('Wrong number of arguments.');
```

end

```

4
5  C_a = repmat(a,1,length(b));
6  C_b = repmat(b,1,length(a))';
7
8  C_eq = bsxfun(@eq,C_a,C_b);
9  C_nq = bsxfun(@ne,C_a,C_b)*cc;
10
11 C = C_eq+C_nq;
12
```