

source code:

```
import numpy as np
import math
def balance_random_3d(depth, l, wid):...
    def balance_random_2d(l, wid):...
        def arr_add(dst, src):...
            def reLU(img):...
                def get_mean(row):...
                    def std_dev(row):...
def BN_layer(arr, weights, biases):...
    def fc_layer(arr, W, W_0):...
        def softmax(arr):...
def concat(emb, head, tokens, d_k, cur):...
def self_attn(head, tokens, d_k, Q, K, V):...
    def main():...
        if __name__ == '__main__':
```

