```
10^{10}
7 \times 10
                                  4
                                             6
                                                       8
                                 Steps
(def
gemm (Vec n (Vec I Float))
((var0 : (Tuple Float
           (Vec n (Vec m Float))
           (Vec m (Vec l Float))
           (Vec n (Vec I Float)))))
(let (beta (get45 var0))
(let (mat b (get35 var0))
(let (mat a (get25 var0))
(let (alpha (get15 var0))
(let (mat c (get55 var0))
 (let (mat x (build n (lam (var4 : Integer)
           (build I (lam (k : Integer)
            (sumbuild m (lam (var5 : Integer)
              (mul (index var4 (index var5 mat a))
                 (index var5 (index k mat b)))))))))
  (let (mat x \in \{build n (lam (var2 : Integer)\}
            (build m (lam (var3 : Integer)
              (mul alpha (index var2 (index var3 mat x)))))))
  (let (mat y (build n (lam (var6 : Integer)
           (build m (lam (var1 : Integer)
            (mul beta (index var6 (index var1 mat_())))))))
       (build n (lam (i : Integer)
        (build m (lam (j : Integer)
          (add (index i (index j mat \times 6))
             (index i (index j mat y)))))))))))))))
cost=7160408
(def
gemm (Vec n (Vec I Float))
((var0 : (Tuple Float
           (Vec n (Vec m Float))
           (Vec m (Vec I Float))
           Float
           (Vec n (Vec I Float)))))
(let (beta (get45 var0))
(let (mat b (get35 var0))
(let (mat a (get25 var0))
(let (alpha (get15 var0))
(let (mat_c (get55 var0))
   (build n (lam (i : Integer)
    (build I (lam (j : Integer)
      (add
       (mul alpha
        (sumbuild m (lam (var5 : Integer)
           (index i (index var5 mat a))
           (index var5 (index j mat b))))))
       (mul beta (index j (index i mat c)))))))))))))
cost = 7070100
```