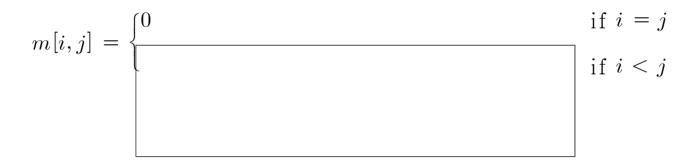
## Review 8-4

1. The minimum number of scalar multiplications for computing  $A_i A_{i+1} ... A_j$ , denoted by m[i, j], is as follows. Fill in the blank.



**2.** Compute m[2, 5] and s[2, 5] in the following example.

	1	2	3	4	5	6
1	0	15750	7875	9375	11875	15125
2		0	2625	4375		10500
3			0	750	2500	5375
4				0	1000	3500
5					0	5000
6						0

	2	3	4	5	6
1	1	1	3	3	3
2		2	3		3
3			3	3	3
4				4	5
5					5
6					

S

matr	ix dimension	
$A_1$	$30 \times 35$	
$A_2$	$35 \times 15$	
$A_3$	15 × 5	
$A_4$	$5 \times 10$	
$A_5$	$10 \times 20$	
$A_6$	$20 \times 25$	

m