

For each thing you want to see, you write down how long it will take and rate how much you want to see it. Can you figure out what you should see, based on this list?

It's the knapsack problem again! Instead of a knapsack, you have a limited amount of time. And instead of stereos and laptops, you have a list of places you want to go. Draw the dynamic-programming grid for this list before moving on.

Here's what the grid looks like.

	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
WESTMINSTER				
GLOBE THEATRE				
NATIONAL GALLERY				
BRITISH MUSEUM				
ST. PAUL'S				

Did you get it right? Fill in the grid. What places should you end up seeing? Here's the answer.

	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
WESTMINSTER	7 _W	7 _W	7 _W	7 _W
GLOBE THEATRE	7 _W	13 _{WG}	13 _{WG}	13 _{WG}
NATIONAL GALLERY	7 _W	13 _{WG}	16 _{WN}	22 _{WGN}
BRITISH MUSEUM	7 _W	13 _{WG}	16 _{WN}	22 _{WGN}
ST PAUL'S	8 _S	15 _{WS}	21 _{WGS}	24 _{WNS}

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FINAL ANSWER:
WESTMINSTER ABBEY,
NATIONAL GALLERY,
ST. PAUL'S CATHEDRAL