Instance ID: sympy_sympy-8273				
Gold Patch	Aider (GPT40 & Claude 3 Opus)	AppMap Naive (GPT4o)		
Gold I atch	Aidei (Gi 140 & Claude 9 Opus)	Applitab Italive (GI 140)		
<pre>from sphinx.util.osutil import ensuredir, make_filename_from_project if self.config. man_make_section_directory: # Correct Fix: Properly use existing ensuredir utility for creating directories ensuredir(path.join(self.outdir, str(section))) targetname = '%s/%s.%s' % (section, name, section) else: targetname = '%s.%s' % (name, section)</pre>	<pre>from os import path, makedirs section_dir = path.join(self.outdir, f"man{section}") # Wrong Fix: Using makedirs() instead of the existing ensuredir() utility if not path.exists(section.dir): makedirs(section.dir) targetname = path.join(section_dir, '%s.%s' % (name, section))</pre>	<pre>for i, line in enumerate(result_lines): # Wrong Fix: Manually handling directory creation instead of leveraging ensuredir() if line.rstrip().endswith("_</pre>		

Table 1: Model Limitations in Integrating with Existing Utilities - Comparing Gold Patch vs. Model-Generated Patches (sympy_sympy-8273). Green texts indicate the correct implementation in the gold patch, while red text highlights the flawed approaches in model-generated patches.

Instance ID: sympy_sympy-19542				
Gold Patch	AutoCodeRover+GPT4o Patch	Agentless +GPT4o Patch		
<pre># Correct fix: Apply Knuth-Cohen bound with binomial coefficients and Euclidean norm for accurate estimation from sympy import binomial d = dup_degree(f) delta = _ceil(d / 2) delta2 = _ceil(delta / 2) eucl_norm = K.sqrt(sum([cf**2 for</pre>	<pre>def dup_zz_mignotte_bound(f, K): a = dup_max_norm(f, K) b = abs(dup_LC(f, K)) n = dup_degree(f) # Wrong fix: Incorrect simplified formula that omits binomial coefficients and Euclidean norms return ((K(n + 1) / 2) ** (n</pre>	<pre>a = dup_max_norm(f, K) b = abs(dup_LC(f, K)) n = dup_degree(f) # Wrong fix: Retains original Mignotte formula without improving the estimation return 2**n * K.sqrt(K(n + 1)) * a * b def dmp_zz_mignotte_bound(f, u, K): a = dmp_max_norm(f, u, K) b = abs(dmp_ground_LC(f, u, K)) n = sum(dmp_degree_list(f, u)) # Wrong fix: Retains original Mignotte formula without improving the estimation return 2**n * K.sqrt(K(n + 1)) * a * b</pre>		

Table 2: Model Limitations in Performance Implications - Comparing Gold Patch vs. Model-Generated Patches (sympy_sympy-19542). Green texts indicate the correct implementation in the gold patch, while red text highlights the flawed approaches in model-generated patches.

Instance ID: sympy-12454				
Gold Patch	Swe-Agent+Claude 3 Opus Patch	Agentless+GPT4o		
<pre>def _eval_is_upper_hessenberg(self): return all(self[i, j].is_zero</pre>	<pre>def is_upper(self): return all(self[i, j].is_zero for i in range(1, self.rows) for j in range(min(i, self.cols)) # Wrong Fix: Incorrectly fixes only the is_upper() method and</pre>	<pre>class MatrixProperties(MatrixRequired): return all(self[i, j].is_zero for i in range(1, self. rows) for j in range(min(i, self.cols))</pre>		
<pre>.is_zero] # Correct Fix: Correctly limits the column index to prevent out-of- bounds errors def is_upper(self): return all(self[i, j].is_zero for i in range(1, self.rows) for j in range(min(i, self.cols))</pre> @property	<pre>neglects _eval_is_upper_hessenberg(). @property def is_zero(self): pass</pre>	# Wrong Fix: Incorrectly fixes only the is_upper() method and overlooks _eval_is_upper_hessenberg(). @property def is_zero(self): pass		
<pre>def is_zero(self): pass</pre>				

Table 3: Model Limitations in Error Handling - Comparing Gold Patch vs. Model-Generated Patches (sympy_sympy-12454). Green texts indicate the correct implementation in the gold patch, while red text highlights the flawed approaches in model-generated patches.

Instance ID: matplotlib_matplotlib-24970				
Gold Patch	Aider (GPT4o & Claude 3 Opus)	Moatless Tools (GPT4o1)		
<pre>defcall(self, X, alpha=None, bytes=False): if not xa.dtype.isnative: xa = xa.byteswap(). newbyteorder() if xa.dtype.kind == "f": xa *= self.N xa[xa < 0] = -1 xa[xa == self.N] = self.N -1 np.clip(xa, -1, self.N, out=xa) xa = xa.astype(int) # Correct: Explicitly clips integer values to the valid range, ensuring cross-version compatibility. xa = np.clip(xa, 0, self.N -1) xa[xa > self.N - 1] = self. _i_over xa[xa < 0] = selfi_under xa[mask_bad] = selfi_bad</pre>	<pre>class Colormap: xa = xa.astype(int) xa = np.clip(xa, 0, self.N - 1) xa = np.clip(xa, -1, self.N) xa = np.clip(xa, -1, self.N) # Wrong Fix: Redundant and inconsistent clipping that does not explicitly address NumPy's version-specific behavior. xa = np.clip(xa, -1, self.N) xa[xa > self.N - 1] = self. _i_over xa[xa < 0] = selfi_under xa[mask_bad] = selfi_bad</pre>	<pre>class Colormap: np.clip(xa, -1, self.N, out= xa) xa = xa.astype(int) # Simplifies the logic but removes explicit handling for over/under-range values, risking incorrect behavior. np.clip(xa, 0, self.N - 1, out=xa) xa[mask_bad] = selfi_bad lut = selflut</pre>		

Table 4: Model Limitations in Cross Version - Comparing Gold Patch vs. Model-Generated Patches (matplotlib_matplotlib-24970). Green texts indicate the correct implementation in the gold patch, while red text highlights the flawed approaches in model-generated patches.